








OPERATION MANUAL


Ver 1.0




WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

 <div data-bbox="295 264 571 365"> CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN </div> 	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

WARNING: 	Use only modems supported by this monitoring unit. Dixell S.p.a can accept no responsibility for possible damage due the usage of not supported modems.
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WARNING: 	Dixell S.p.a. reserves itself the right to alter this manual without notice. The last version available can be downloaded from the website.
--	---

WARNING: 	This manual describes XWEB 500 unit ver. 1.0.
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WARNING: 	This controlling and monitoring unit is compliant with standard EN 12830 if it is used together with probes that are compliant with standard EN 13485
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INTRODUCTION

Congratulations! This manual will teach you everything about XWEB 500 server, the most powerful and configurable tool for Controlling and Monitoring.

This manual is a comprehensive guide to your XWEB 500. You will find all the information you need to work with the unit.

The XWEB 500 is based on the latest technology of the Internet world to display the WEB pages contained into the unit itself. The Linux operative system guarantees maximum efficiency and stability support for this kind of product.

All future software releases developed by Dixell will be available via internet connection. The Hardware inside the unit, based on high performance electronic boards, does not require any maintenance.

PACKAGING

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Inside the box you must find these articles:


- The XWEB 500 server unit [1].
- One CD Rom containing the Operative manual and software [2].
- USB and power supply [3]
- Quick setup manual (Fast installation) [4].

If one of the above items is damaged, do not hesitate to contact your supplier.



MODEM (not included)

- When working with the modem connection always check the kind of modem you are going to install by verifying, with Dixell, the complete compatibility with the XWEB 500 unit.
- Dixell is not responsible for bad functioning of unknown or untested devices.

 Caution: read this page carefully to ensure safe operation

MINIMUM SYSTEM REQUIREMENTS FOR THE PC-CLIENT

When connecting through local or remote connection, the client PC computer, must have installed these components:

Windows 98® or higher

Pentium II 300MHz with 64 Mb-ram or higher

Java Virtual Machine

Explorer 5.5 or higher

If necessary, inside the CDROM you will find the Java Virtual Machine program distributed by Sun® Microsystems.

Dixell S.p.a.. is not responsible for any kind of damage occurring after the loading of the Java Virtual Machine program into the user's PC.



Java is a trademark of Sun Microsystems, Inc.

1 GENERAL INFORMATION

XWEB 500 is a Controlling and Monitoring system based on “WEB server” technology. It is capable to communicate data to one external Client with the same kind of procedure used by the Internet Web Sites. Client need only a standard Browser such as Microsoft Explorer® or Netscape®.

The Web Pages with all the information are contained into the server itself; Linux operative system ensures maximum efficiency and security.

The server reads, logs and checks the data coming from the Dixell instruments connected to a RS485 line. The communication protocol is the Modbus-Rtu. The XWEB 500 is capable of recognising also most of the Modbus-Rtu compatible instruments not manufactured by Dixell.

ATTENTION: Always check the proper RS485 connections (see 2.1.1 rs485)

ATTENTION: Dixell S.p.a. reserves itself the right to analyse the Modbus-RTU compatibility of other manufacturer's devices before ensuring their integration into XWEB 500 system.

Clients to Server connection possibility:

- **Modem:** point to point through local and remote modem devices (“Creating a Remote Access under Windows”);
- **Local USB cable:** Before plugging-in the USB cable, please install the connection software provided with the cd-rom. You can plug the provided USB cable into labelled USB socket of XWEB 500 and on the other side into your PC USB port.
- **Intranet / Internet:** where available a static IP, using the standard socket 10 Base-T with RJ45 connector.
- **Cross over ethernet cable:** You can plug a bridge network cable into RJ45 socket of XWEB 500 and on the other side into your PC network adapter. Ask your network administrator to properly setup your PC to be able to access XWEB 500 web pages.

The User interface is defined by the Browser program and it is the same for all kind of connections.

The PC-client needs only a standard Browser, there is no need to install any kind of software

Some pages created by the web server rely on Java and they need the Java Virtual Machine program that is normally installed in the latest Browsers and operative systems.

Check the different connection under “§2.1.8 Local connectivity”.

Features and functions included into the XWEB 500 management:

- Data monitoring and recording, alarm detection and recording of the instrument connected.
- Alarm management defined by the User with visible signals (onboard led), or relay switching or remote transmission via Fax, E-mail or sms.
- Interactive commands to manage the connected instruments.
- Parameter table programming.
- Graphic or table viewing and printing of the recorded data.

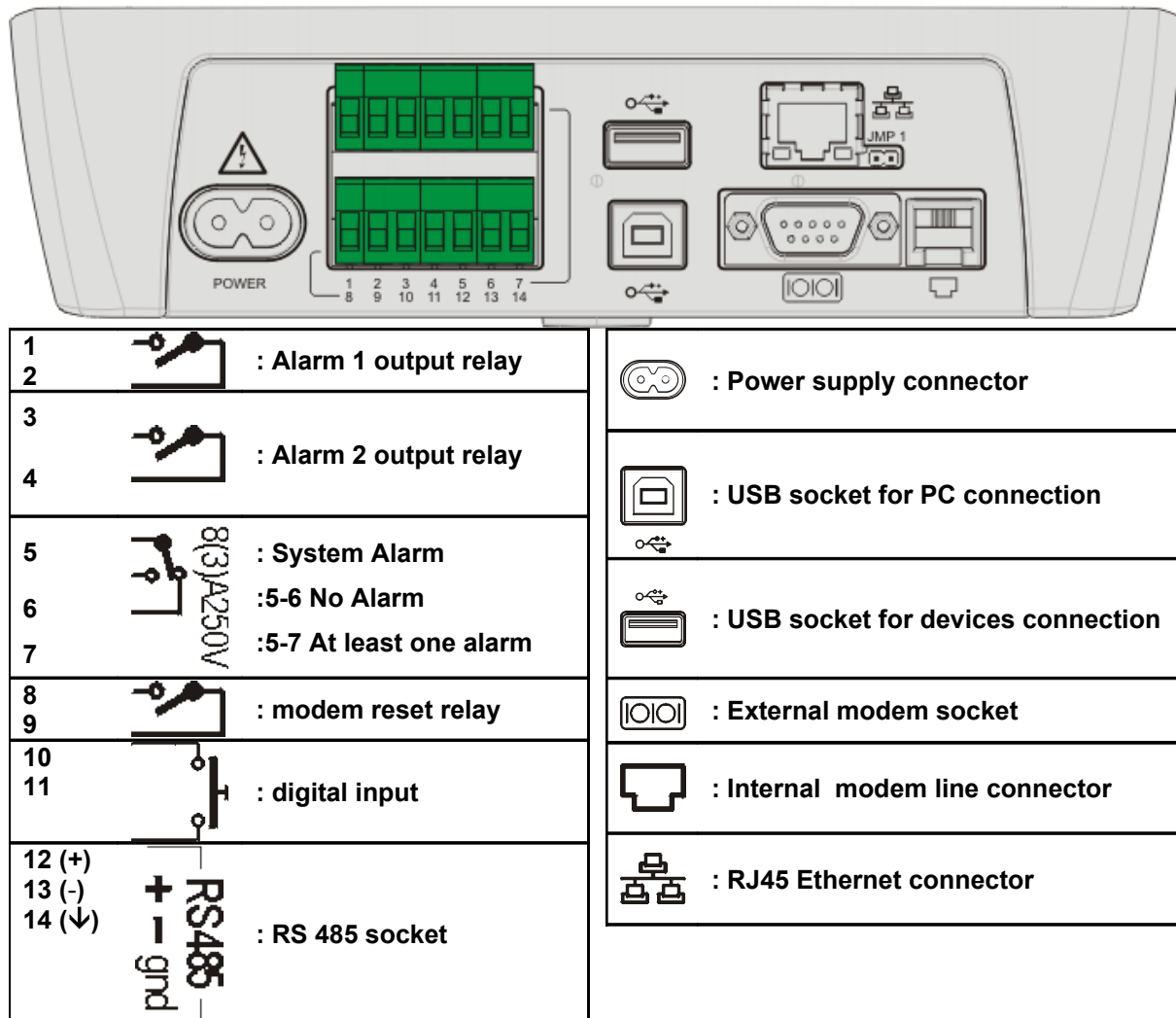
2 INSTALLATION

2.1 HARDWARE

ATTENTION: to protect both yourself and the server from electrical hazards the XWEB 500 should remain

turned off until you are finished connecting all electrical devices to the unit.

To avoid accidental start of the unit, remember to plug in electrical cable only when you have finished setting up all other connection.



2.1.1 RS485

To be connected to the serial line all the Dixell Modbus instruments must be provided with direct RS485 terminals or the "TTL"-RS485 interface (XJRS485 or XJ485). Check the instrument manuals for more information.

The RS485 line is mainly based on two polarised terminals. Please beware to respect the right sequence for all the devices connected to the serial line.

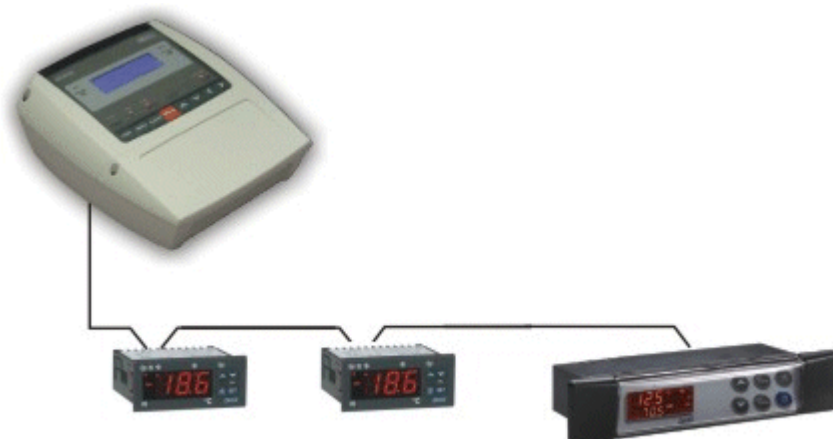
Follow these important advises:

- The RS485 serial line must reach all the instruments where they are installed.
- Beware to the wire polarities when screwing them into the instrument terminals.

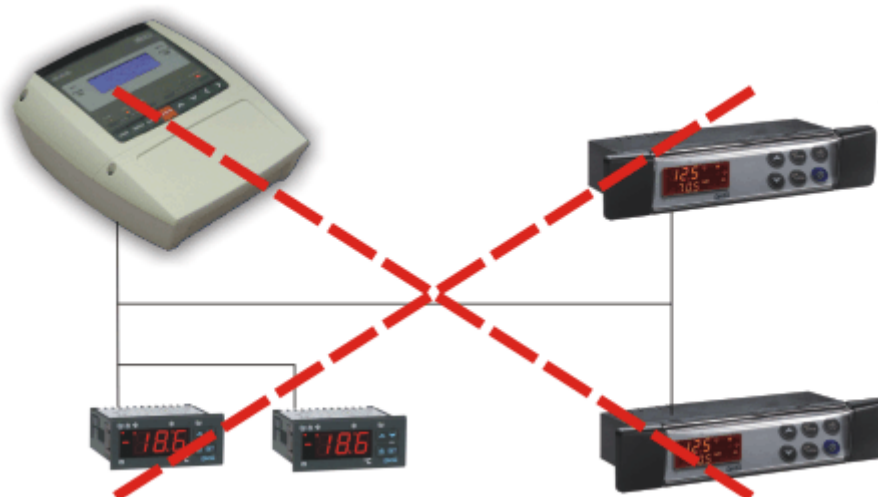
2.1.2 SERIAL ADDRESS

- The cable must have 2 or 3 wires with shield, minimum section 0,5mm² (eg. the BELDEN 8772).
- From the XWEB 500 position the cable reaches all the instrument positions.
- Do not execute loops or derivations:

Right connection



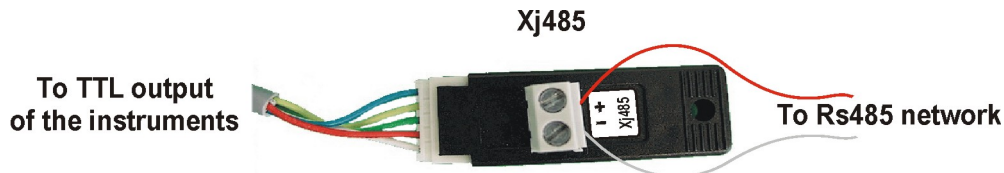
Wrong connection



- Always keep the usb cable away from power cables.
- Always keep the usb cable away from electro-magnetic or frequency sources.
- Do not connect shield to ground.
- Do not connect the “Gnd” terminal.
- Remember to draw a map of the line. This will help you to find an error if something is wrong.
- The instrument with RS485 have “+” and “-” terminals, respect the polarity.
- To keep the line balanced it is necessary a 100 Ohm resistor at the end of the line (you can use the RS 485+ and RS 485- terminals of the last instrument connected).

2.1.3 THE TTL OUTPUT

- The instrument with RS485 on board do not need any kind of external interface module.
- For instruments with external interface: keep the TTL cable away from power cables or frequency sources.
- The XJ485 external interface must be connected with TTL cable to the instrument with TTL compatibility.



2.1.4 SERIAL ADDRESS OF THE INSTRUMENTS

- Each instrument must be defined by its unique address.
- Check the address into the **Adr** parameter value. Take reference to the instruction manual of the instrument itself to find the right procedure to enter the programming and set the value.
- The easiest way to work with the category functions is to set the addresses progressively for similar groups of instruments which have the same application.

2.1.5 TERMINATION RESISTOR

To keep balanced the RS485 the beginning and the end of line must be closed with a resistor of 120Ω. If XWEB 500 is placed at the beginning or at the end of the line, please active its termination resistor by adding a jumper in position 2 (JMP2 on the back side of the unit). DO NOT add the jumper if XWEB 500 is placed in the middle of the RS485 line.

2.1.6 COMPATIBLE INSTRUMENTS

For a complete list please read Appendix C.

2.1.6.1 PARTICULAR DEVICE SETUP

- All controllers equipped with 2 serial addresses (XC400/600/800/900, XH200/300/400 etc.) must be used with both addresses equal.
- iCHILLs need to activate a particular value in the “Advanced” section. User must check “Force Device On status”. Remember to stop-start acquisition after this operation.
- To use non Dixell, but modBus compatible controllers (such as Energy Analyzer by Carlo Gavazzi) follow this instructions:
 - a) Go to “Configuration” then “Devices”.
 - b) On the drop down menu “Actions” select “New...”.
 - c) A new pop-up window will appear: fill in the blank with the name of the controller and the ADR.
 - d) Choose the proper device model (e.g. “ENERGY_8000000000000000”).
 - e) Press “Create”

2.1.7 REMOTE CONNECTION FROM A CLIENT PC

2.1.7.1 MODEM CONNECTION (“OR POINT TO POINT CONNECTION”)

It represents the most common method where the LAN (intranet / Ethernet / internet) is not available. It is strongly advised to use a dedicated telephone line.



IMPORTANT: Use exclusively modem devices approved by Dixell.

Remember that many modems are not compatible with Linux. The list of compatible models can be found under the menu: Configuration – System - Modem. In appendix E, you can find the complete list of accessories together with their commercial name. Dixell can provide you these modems. You can decide to buy them in your country, but do not use different models from the ones stated here. Dixell is not responsible for any action depending on a modem that is not present in the official list of supported accessories.

External Modem.

Connect the modem to the COM Port on the back side using the modem cable commonly included into the modem packaging itself.

The reset of XWEB modem is directly controlled by the XWEB 500 Server through the COM port, but if you use a GSM modem remember to use the external relay to cut the modem power supply to reset it.

Connect the modem to the telephone line with the phone cable included into the modem packaging.

Remember to check if there is a switching machine (add the prefix digit). The connection procedure is divided in two parts:

In the first part it is necessary to create the Remote Access, in your remote PC, set with the telephone number of the line where the XWEB 500 is connected to. You have to use Dixell as Username and Password.

The second is the procedure you will ever use: after launching the new Remote Access that will engage the line via the modem, start the Browser from your PC and insert the address <http://192.168.0.150> into Explorer/Netscape address bar. Proper information about setting up a dial-up connection for the client PC, can be found inside the INSTALLATION MANUAL on §4.3.

2.1.7.2 INTRANET / ETHERNET CONNECTION

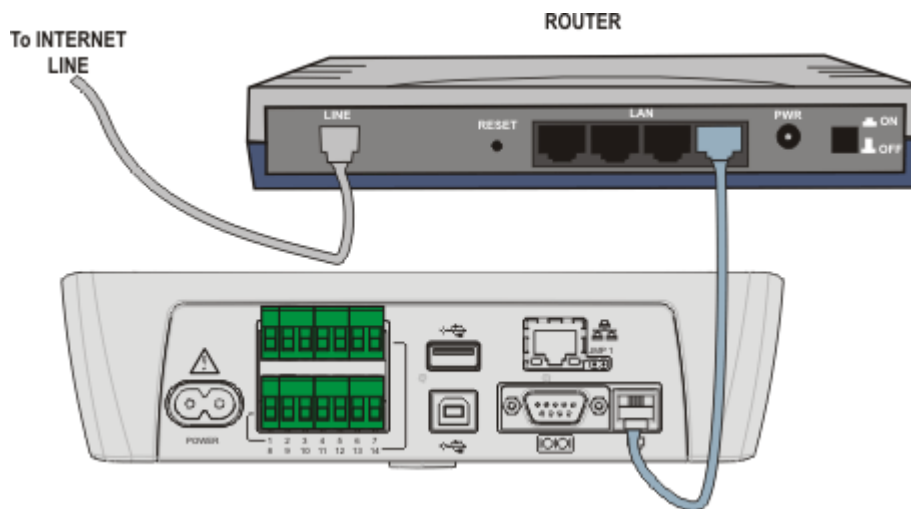
The Intranet or Ethernet connection should be initially managed by the net administrator which will assign one free IP address to reach the Server. This number is an example of what you should expect:

<http://192.168.000.111>.

After receiving the address from your network Administrator the XWEB 500 must be set with this number.

Use a standard RJ45 network cable to connect the unit to your existing LAN.

The Intranet method allows the connection to interact with XWEB 500 from all the PC Clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.



2.1.7.3 INTERNET CONNECTION

It is necessary a STATIC IP address for the XWEB 500 which is normally assigned by the Provider of your internet services.

The Internet connection allows XWEB 500 to be reached from all PC-clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.

Ask your provider for more details about the rent of a static IP.

This the internet system requirements for the best result:

- Wide band connection.
- At least 1 static IP addresses for the XWEB 500.

The internet connection is established through a device called Router that receives and sends the data as interface between an Intranet and Internet. The Provider also assigns the address of the router that is called IP WAN.

Remember that the default value of the IP of the XWEB 500 is: **192.168.0.150**.

Depending on the contract the Provider can also supply the router, otherwise the user can buy it separately. REMEMBER: ask qualified personnel for the router installation by using this information:

Used ports that are mapped to the LAN side:

- 22 (used for SSH connection)
- 80 (used for the http:// access)
- 42 (tcp and udp) towards the name server you choose
- 53 (tcp and udp) towards the name server you choose

The above ports are all related to the XWEB 500 IP address 192.168.0.150.

While the ports on the WAN side are:

- Telnet (to configure the router from a remote, also via Internet)
- http (To access the XWEB 500)

2.1.8 LOCAL CONNECTIVITY VIA A USB CABLE

It is normally used for the first setup of the unit. XWEB 500 is provided with the USB port for the PC connection through a standard USB cable. XWEB can also work without local PC, therefore after the first

configuration is it possible to remove the local connection and work only via the on-board keyboard and display.

For complete information on how to connect to the unit, please refer to the “Installation Guide”. In the cd-rom is available a software to automatically setup the PC for the USB connection.

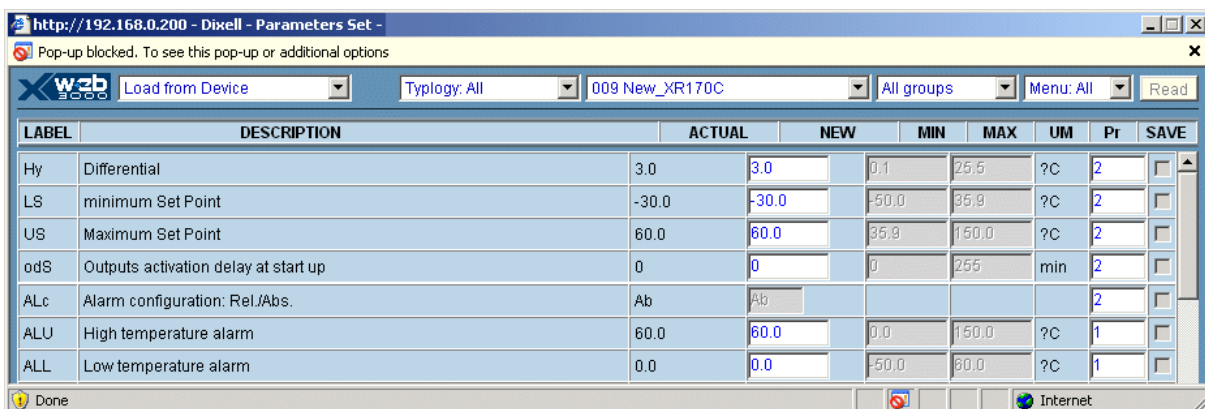
2.2 CONFIGURATION AND ACCESS

Before turning on the XWEB 500 read these notes.

- The User interface is the same for all type of connections, therefore it does not matter if you are local PC connected via USB cable, LAN or point-to-point connected via modem.
- The local access via USB cable is the fastest way to manage the first setup of the unit. Be sure the Pc-client is provided with Java Virtual Machine. Launch the Browser and insert the default address 192.168.0.150.

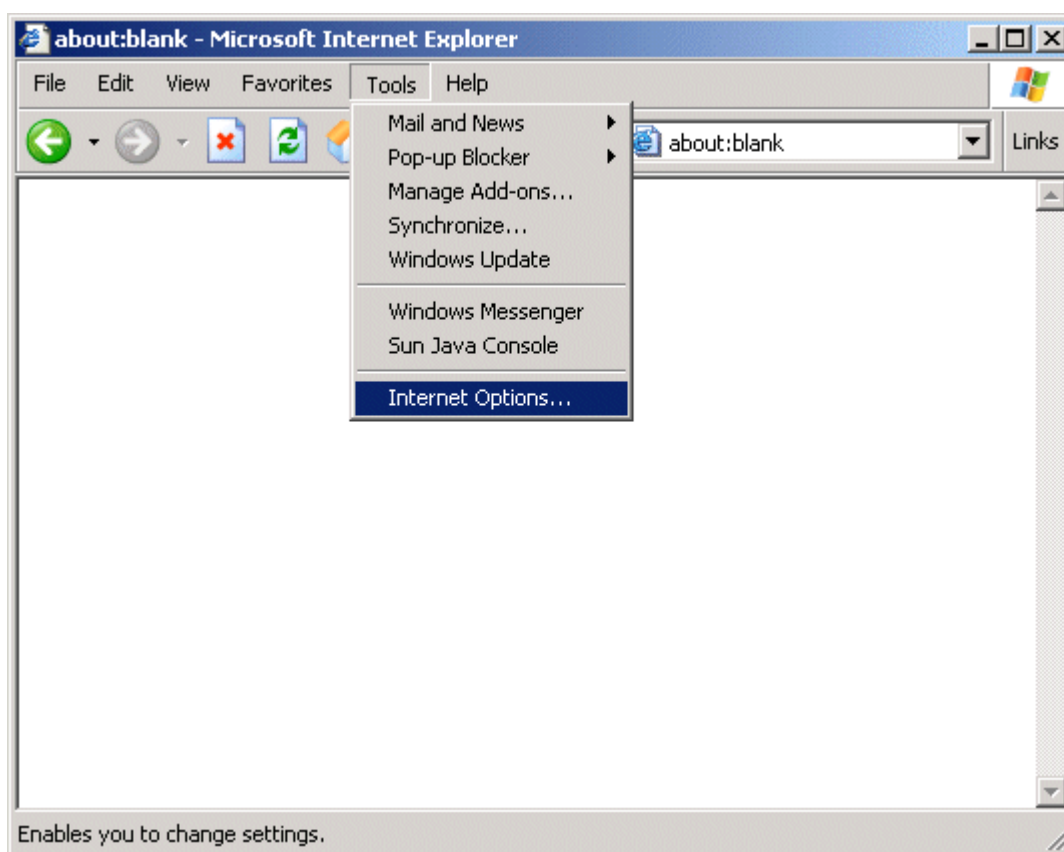
2.2.1 MICROSOFT WINDOWS: POP-UP BLOCKER AND COOKIES

XWEB 500 uses some pop-up windows to show the user the real status of each operation, unfortunately these pop-ups are blocked by Windows pop-up blocker. Usually Windows add a pale yellow bar to inform you about the blocked pop-up (image below).

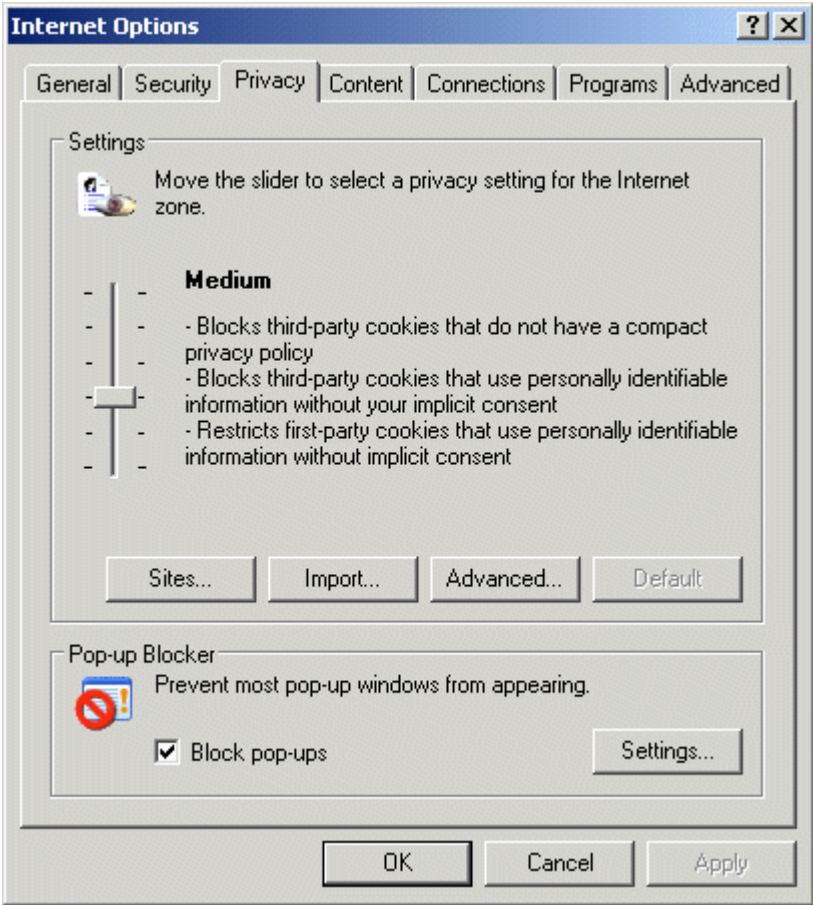


To avoid this problem, please follow these rules:

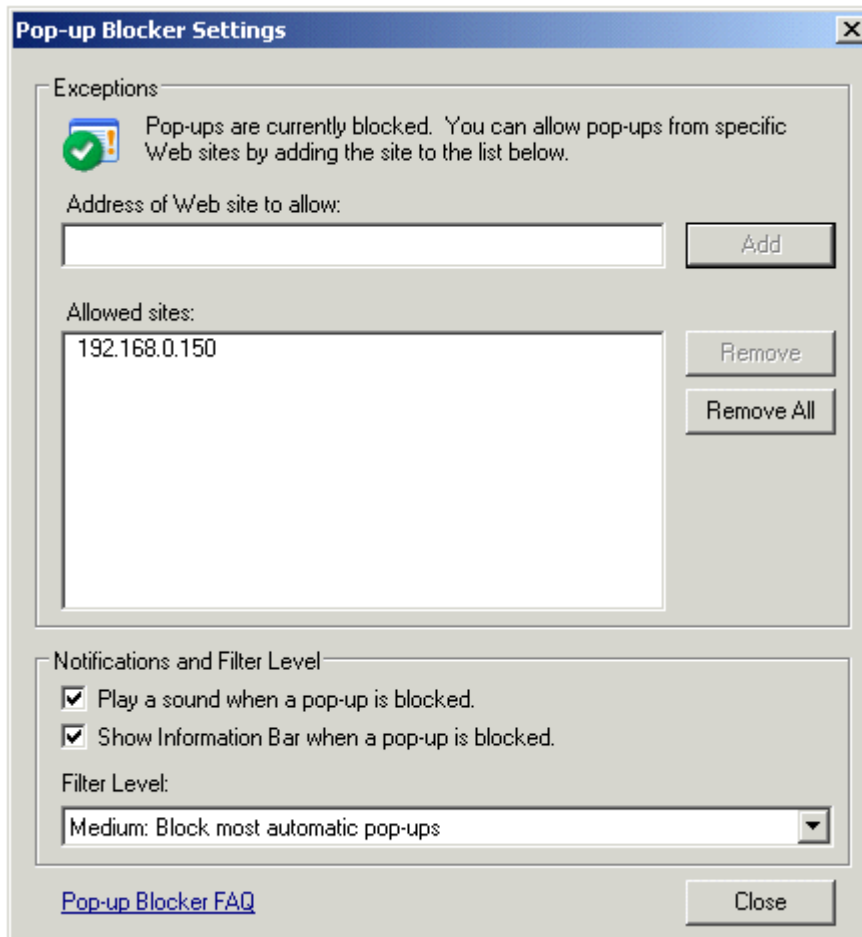
1. Go to “Tools” and then “Internet Options...”:



2. From the TAB “Privacy”, apply the “Default” settings and press the button “Settings...” on the bottom right corner.



3. Add the default address of XWEB 500, i.e: 192.168.0.150.



Please remember to add each IP address you will use to this list.

2.2.2 MICROSOFT WINDOWS: CACHE FILES

Often referred to as the cache, the Temporary Internet Files folder contains a kind of travel record of the items you have seen, or downloaded from the Web, including images, sounds, Web pages, even [cookies](#). Typically these items are stored in the Temporary Internet Files folder.

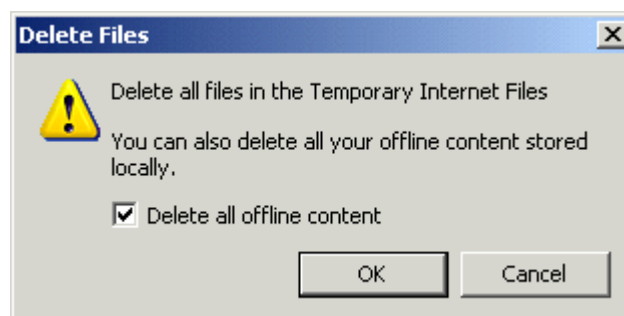
Storing these files in your cache can make browsing the Web faster because it usually takes your computer less time to display a Web page when it can call up some of the page's elements or even the entire page from your local Temporary Internet Files folder, but at the same time can prevent you from receiving correct information from the XWEB 500 you are connect to.

These files also take up space, so we suggest deleting them periodically. When you clear out the files stored in your cache you go through the “clearing the cache” procedure.

To clear your cache:

1. On the Internet Explorer Tools menu, click Internet Options. The Internet Options box should open to the General tab.
2. On the General tab, in the Temporary Internet Files section, click the Delete Files button. This will delete all

the files that are currently stored in your cache.



2.2.3 THIRD PART SOFTWARE AND XWEB 500

As general rule please remember that software such as antivirus programs, firewall programs, toolbars (Yahoo and Google bar) may prevent you from connecting properly to XWEB 500. We strongly suggest to check these softwares setup and add the IP address of XWEB 500 to the trusted site list of your software. As

far as firewall is concerned, add port 80 and port 22 to the allowed ports forwarding, of course all the TCP/IP requests coming from the IP address of XWEB 500 must be allowed.

2.2.4 SYSTEM CONFIGURATION


As soon as the power supply cable is plugged in, the system starts loading.
The on-board display shows you the bootstrap procedure with a slide-bar

After the first loading of the operative system, the user is required to setup the XWEB 500.

The first window asks you to log-in to the system. **Use Admin as “User name” and “Password”.**

2.2.5 XWEB 500 SETUP

Click on “Configuration” -> “System” roll-down menu. This window will appear:

Server Configuration	 Current Setup
Current Setup	Setup
System Setup	Name: XWEB500
Network Setup	Description: XWEB500
Modem Setup	Language: English
Dialup Setup	Date format: dd/mm/yyyy
Mail/Fax/Sms Setup	Time Zone: Italia
Printer Setup	Network: Use network
	Hostname: xweb500
	IP Address: 192.168.0.214
	Gateway :
	Subnet Mask: 255.255.255.0
	Primary DNS:
	Secondary DNS:
	External IP Address:
	Internal modem: XWEB Modem (Italy)
	External modem: Disabled
	Enable calls from: Internal modem
	Dial-up:
	SMTP server:
	Default e-mail:
	Authentication Required: No
	Send e-mail via: network

2.2.6 SYSTEM SETUP

Click on “System setup” to adjust System name, description, language, date/time and time-zone format. They are important because the system will use its time stamp to record and send alarm. It is possible to change the default language: click on “Import” and browse the cd-rom. All the dictionary files are stored in the “Languages” folder.

Description	
Name:	<input type="text" value="XWEB500"/>
Description:	<input type="text" value="XWEB500"/>
<input type="button" value="Modify"/>	

Language	
Language:	<input type="text" value="English"/>
<input type="button" value="Modify"/>	

Date/Time	
Date:	<input type="text" value="24/04/2006"/> dd/mm/yyyy
Hour:	<input type="text" value="12:14"/> hh:mm
<input type="button" value="Modify"/>	

Date format: ☒ dd/mm/yyyy ☐ mm/dd/yyyy

Time Zone:

2.2.7 NETWORK SETUP

By clicking “Network Setup” is possible to customize all network settings. The default IP is 192.168.0.150, if you change it, please refer to this new number each time you encounter the default IP inside this manual.

The next window allows you to setup the network. You can choose “No network”, it means you will not be able to reach your XWEB 500 using intranet/lan access. This is an uncommon situation. On the other side if you check the radio button “fixed network”, you have to fill in the blank labels. We suggest you, before proceeding, to contact your network administrator to get help.

IP ADDRESS: you need this unique number to identify your XWEB 500. There are 2 kind of IP numbers: private and public ones. The first are usually used to setup an intranet/lan where all clients do not need to be reached from outside. We can compare this situation to a close environment: communication is possible only among IPs belonging to this private range. For example IP numbers 192.168.xxx.yyy define a private network.

NETWORK MASK: is just like a filter, 255.255.255.0 means XWEB 500 can directly reaches only PCs belonging to its own IP range. All other requests will be sent to a valid gateway.

GATEWAY ADDRESS: You have to compile this field with a valid gateway IP number. Gateway machines are a kind of portal through which all data that can not directly reach the target IP, is sent.

Network	
No network:	<input type="radio"/>
Use network:	<input checked="" type="radio"/>
Hostname:	<input type="text" value="xweb500"/>
IP Address:	<input type="text" value="192.168.0.214"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text"/>
Primary DNS:	<input type="text"/>
Secondary DNS:	<input type="text"/>
External IP Address:	<input type="text"/>
<input type="button" value="Modify"/>	

PRIMARY/SECONDARY DNS: In the internet world you can reach a web server using its name, for example www.dixell.com, digiting the name into your web-browser address bar. Due to the protocol used to guarantee performance and security, all names are converted into IP numbers. This operation is made by a DNS server. Usually your ISP or your network administrator can provide you a valid DNS number. DNSs are also mandatory to use e-mail and the internet upgrade procedure.

2.2.8 MODEM SETUP

Next window allows you to setup the modem connection. XWEB 500 uses the modem to send faxes and in some cases also e-mails. In the first case the unit itself can send a fax, while in the second case you may need to setup a dial-up connection (next step).

When XWEB modem is in use, it is important to choose the country according to the real country where XWEB 500 is installed. From the drop down menu “country”, choose yours (either internal or external one, but also both of them). Please choose your country to avoid modem malfunctioning. If your country is not available in the supported list, please contact Dixell. XWEB 500 can manage up to 2 modem simultaneously: enable/disable them according to your real application. Remember also to set “Dial-in calls” and the number of rings before the answer of the modem.

Internal modem	
Use internal modem:	<input checked="" type="checkbox"/>
Model:	XWEB Modem
Country:	Italy
Modify	

External modem	
Use external modem:	<input type="checkbox"/>
Model:	XWEB Modem
Country:	Italy
Modify	

Dial-in calls	
Enable calls from:	Internal modem <input checked="" type="radio"/> External modem <input type="radio"/>
Number of rings before answering:	1
Modify	

2.2.9 DIALUP SETUP

Click on “Dial up” to proper setup the internet connection for sending e-mails. You need a valid internet account, then fill in all the field. If you do not have a valid SMTP Server, once connected to the Internet, XWEB 500 will try to send the e-mail directly to the receiver. This type of operation is NOT support by all ISP (internet service provider). For this reason it is strongly recommended to use a valid SMTP.

2.2.10 E-MAIL SETUP

XWEB 500 can handles e-mail, but to send them you need to make a proper setup of the unit. XWEB can send e-mail either via network or via dial-up, please choose the proper option according to your needs. To send e-mails a SMTP server must exist and XWEB have to reach this server through the LAN or via dial-up. In this case gateway and DNS parameters are mandatory in “Network Configuration” window. If dial-up is used therefore there is no direct LAN access to internet. In this case a modem is needed, XWEB 500 will contact directly your ISP provider and using its services will send all the e-mails. To send e-mail you need a valid SMTP server. Usually your LAN administrator will provide you a server name, for example dixell.com (another format widely used is mail.company-name.com), then a valid e-mail address is needed.

We strongly suggest you to create a new e-mail account to use with XWEB. In this case, e-mail header will be something like this: xweb@your-company-name.com. This is very useful to apply e-mail filtering in the client PC. It is not necessary to have a dedicated mail account to use e-mail services, but is strongly recommended because for example many SMTP servers need user account authentication (especially ISP) and in this case without a proper user you can not send e-mails. Moreover if your SMTP requires authentication, please check “Yes” box and fill in with the right values. If either network or dial-up setup has

already been done, you can send a test e-mail/SMS/Fax by pressing the proper button.

2.2.11 PRINTER SETUP

The printer must be connected to the USB port. Scroll down the list and choose your model.

Printer Setup

No printer: ☒

Enable printer: ☐

Printer model: -- ---

Printer Paper: A4

Color Options: B/W printing

Printing quality: Low

Modify

3 USING XWEB 500

3.1 SYSTEM LOG-IN

Once the connection is activated, insert the IP number into the address bar of your browser. The first window shows the Login with User Name and Password fields.

If the name and the password are correct the Home Page is loaded otherwise you must repeat the operation: check your password (numbers, capital letters etc.). Remember that default Administrator can log to the unit using:

- **User name:** Admin
- **Password:** Admin

Please consider to change the default password to increase system security (everybody can read this manual and steals the admin account).

ATTENTION: After the first installation is complete, the XWEB 500 user database is made of 1 administrator and 2 users. Please go to Configuration -> Users roll-down section to ensure proper security rights to each users.

3.2 HOME PAGE

When the Home Page appears the connection is effectively working. Depending on the used password the User can operate on the server with or without limits decided by the Administrator of the XWEB 500.

3.2.1 SYSTEM ACCESS

- The user defined as “Administrator” is the only one allowed to modify everything inside the Server. The other users operate with their permission rights (see “§3.8 permissions”).

3.2.2 IDENTIFICATION / TIME

- **Name**
- **Description**

These items represent the name of server and its description.

- **Time**

Internal Real Time Clock of the server.

3.2.3 SERVER PROPERTY

- **Server** Linux version
- **Resources** Level of used memory
- **IP adr** Address of the server
- **Data log:** It shows the used amount of total memory available for storing data.
- **Data reading** Reading activity on RS 485 controllers.
- **Recording** Recording activity on RS 485 controllers.
- **Alarm transmission** Alarm transmission status
- **Last connection**
- **Last users**

- **Server Status** OK, or a warning icon will be displayed

3.2.4 ALARMS

This area immediately on the right hand side shows the currently active alarms of the instrument.

The alarm list is repetitively updated in a short time interval.

To manually force the alarm updating: click on the “Active Alarms”

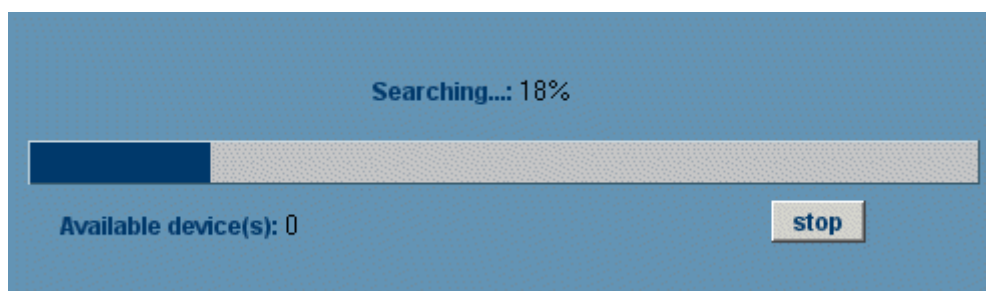
3.3 CONTROLLERS SETUP

3.3.1 DEVICE FIND OF THE INSTRUMENTS CONNECTED TO THE “RS485” SERIAL LINE

The unit is capable to find the Dixell instruments connected to the RS485 serial line. Before starting the procedure be sure that all the devices are properly connected to the RS485 line and the corresponding addresses are properly set. Be sure that all the instruments are properly supplied. Be sure of the number of the instruments you are going to find to avoid losing time in counting them later. To start the procedure, first click on “Data recording” and uncheck all values, push modify. Click on “Configuration -> “Device find” roll-down menu. A new page loads.



Adjust the address range and push “Start”. During the RS485 polling Tx/Rx led blinks and this windows will appear:



When the search is complete a new window will appear.

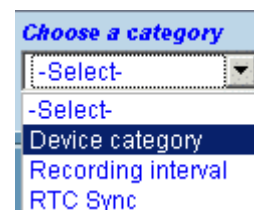
To use the new controllers, under “Operation” column check the box “Insert”, then push “Add”.

3.3.2 CATEGORIES

This function allows you to define the functioning attributes and the working features of the instruments themselves. The user is required to preventively decide the list of these features.

Lately, when working with the Device configuration, each device can be easily configured with these appropriate attributes. Some categories can be defined also with “Default”. In this case the category is initially proposed as default during the instrument configuration.

Click on “Configuration” “Category” roll-down menu.



3.3.2.1 DEVICE TIPOLOGY

This category defines the application at which the instruments belong to. Up to 5 different category can be defined.

Eg: “Display cabinets” “Frozen food”, “Meat Room”, “Air Conditioning”, etc.

- **To insert a new item**

Click “News” and then into the field “Name”. Insert the word or the words that more represents the application;

Device category					
Nome	Default	Action			
Cabinets	✓	Modify	Cancel	Set as default	
Cold room		Modify	Cancel	Set as default	

The most common category should be set as “Default” by clicking into its box;

Only one “Default” can be selected for each category;

Click “Insert” do include the new item into the list. Wait the screen refresh.

- **To modify an existing item**

Click on the name-field and modify it, then press “Modify”;

Click the “Set as Default ” if necessary;

- **To delete one of the item of the list**

Click on “Cancel”;

Confirm the operation if necessary. Wait the screen refresh.

- **To reset all the items of the list**

Click on “new”;

Wait the screen refresh.

3.3.2.2 RECORDING INTERVAL

Define the recording intervals of the instruments to log the data into the archive.

Recording interval					
Nome	Interval (mm.ss)	Default	Action		
IntRec 1	01:00	✓	Modify	Cancel	Set as default
IntRec 2	02:00		Modify	Cancel	Set as default

Eg: “Standard = 15min.”, “Fast = 3min.”.

XWEB 500 can define different log intervals for different instruments when the log frequency is not the same for all the instruments.

- **To insert a new item**

Click “News” and then into the field “Name”. Insert the word or the words that more represents the application;

- **To modify an existing item**

Click on the name-field and modify it, then press “Modify”;

Click the “Set as Default ” if necessary;

- **To delete one of the item of the list**

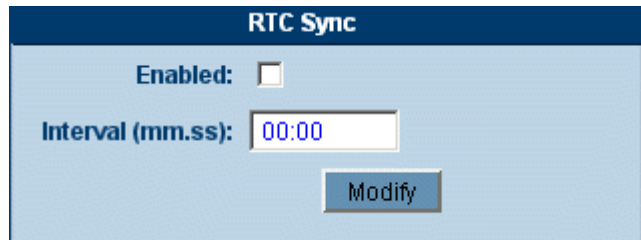
Click on “Cancel”;

Confirm the operation if necessary. Wait the screen refresh.

3.3.2.3 RTC SYNCRONIZATION

In this section user can decide how often to synchronise the controller equipped with a real time clock.

Interval is expressed in hh:mm. The maximum value accepted is 12:00. It means that every 12 hours a synchronise-command is sent to the controller. To enable a controller, the user has to go to the “Devices” page and check the “RTC Sync” checkbox.

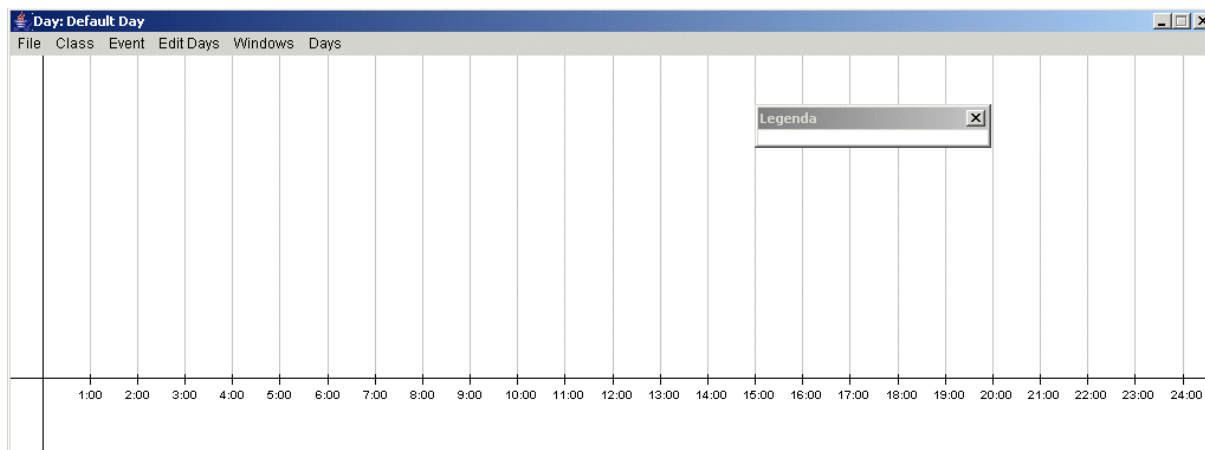


The screenshot shows a web interface titled "RTC Sync" in a dark blue header. Below the header, on a light blue background, there are two controls: "Enabled:" with an unchecked checkbox, and "Interval (mm.ss):" with a text input field containing "00:00". A "Modify" button is positioned to the right of the input field.

3.3.3 SCHEDULER

This is a powerful tool for managing category and repetitive commands. Now it is possible to send command to a set of controllers and have a “visual” chart. This feature, for instance, is very useful to avoid command time-overlap.

To start the “Scheduler”, use the drop-down menu “Configuration”, then “Scheduler”. This window will appear (Java is required):



On the bottom there is a timeline (00:00 to 24:00), each hour is marked with a vertical line. This main window is very useful to build a complete time table in a very easy and fast way.

File Submenu:

- **SAVE**

This function allow you to save the changes done till now. Beware that the system can not go back to a previous save, only the last one is available.

- **EXIT**

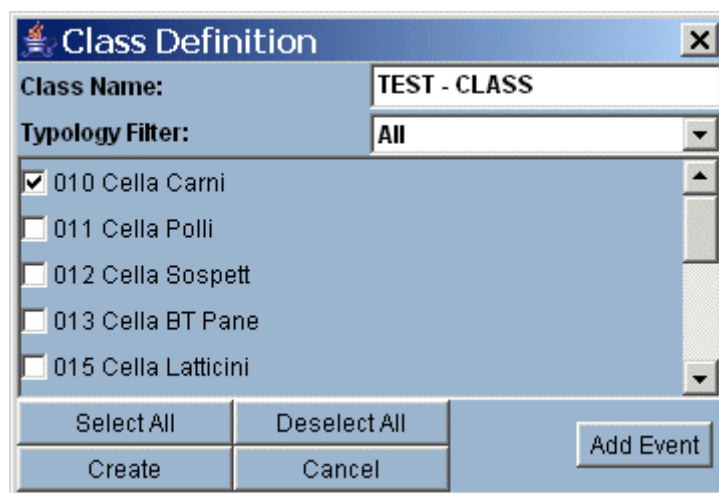
Closes the Scheduler.

-

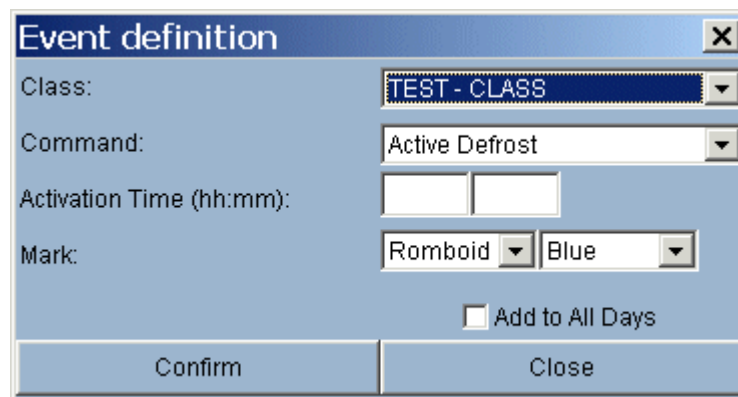
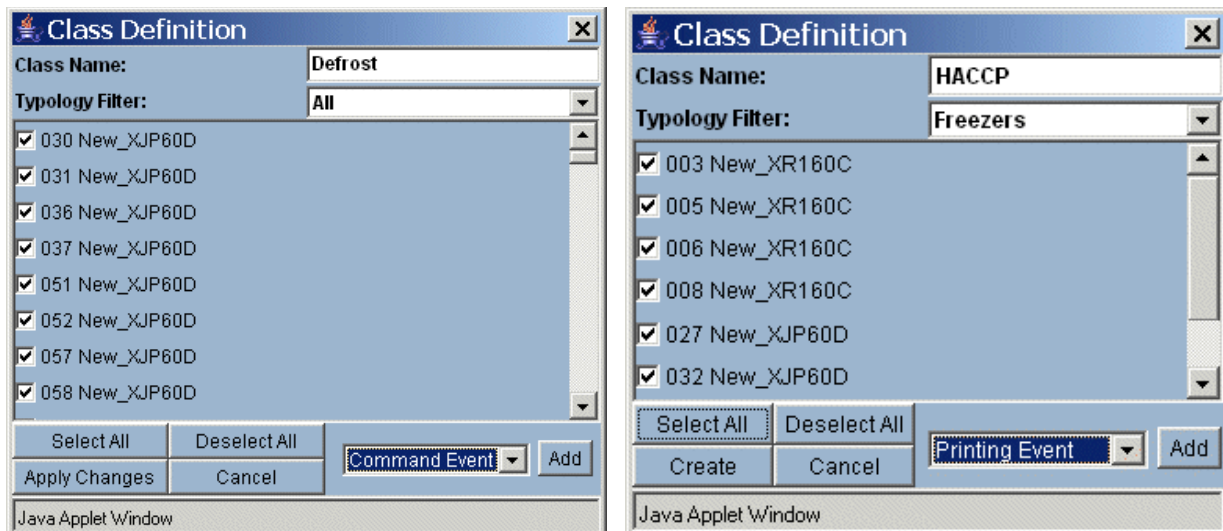
Class Submenu:

- **CREATE CLASS**

By using this menu it is possible to create a new class.



Fill in “Class Name” field, then pick up a Category. Wait for the complete list of the controller. Check all the controllers you want to send a command and push “Add Command event”. If you want to manage a time-scheduled printout, please choose “Add printing Event”.



Choose a command, then fill in “Activation Time”. Choose a marker and its colour. Push “Confirm” to add this event to the Scheduler.

After having selected “Add Printing Event”, use the drop-down menu “Fast Selection”, or if you prefer you can also select all the analog values manually.

Insert the time schedule “Activation Time” and the “Marker Colour”. Press “Confirm”

For instance the “The fast selection” set to “H.A.C.C.P Probe 1” produces the following output:

```
XWEB 3000 - H.A.C.C.P. printout

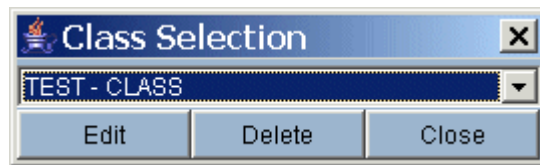
date: 22.11.05      time: 15.19

003 New_XR160C      - - -
005 New_XR160C      2.8°C
006 New_XR160C      28.4°C
008 New_XR160C      28.1°C
010 New_XR775C      0°C
014 New_XR170C      - - -
019 New_XT120C      - - -
027 New_XJP60D      - - -
032 New_XJP60D      - - -
035 New_XJP60D      - - -
038 New_XJP60D      - - -
043 New_XW260L      - - -
044 New_XW260L      - - -
045 New_XW220L      - - -
053 New_XJP60D      - - -
164 New_XJP60D      - - -
197 New_XH260L      - - -
222 New_XC911M      - - -
```

It is shown Site name “XWEB 500”, printout name “H.A.C.C.P. printout”, date and time, address of the controllers, name of the controllers and analog values.

- **EDIT CLASS**

Use this menu to modify an existing class.

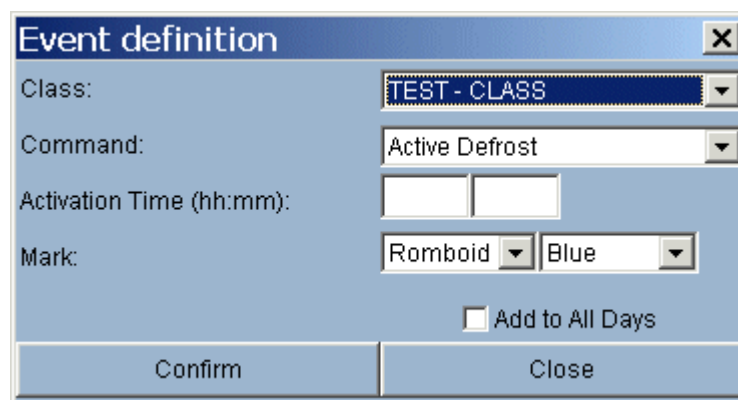


choose the class you want to modify then press "Edit". If you want to delete a class, choose it and press "Delete".

Event submenu:

- ***ADD EVENT***

To add an event to an existing class.



Choose a class then select a command. Fill in "Activation Time". Choose a marker and its colour. Push "Confirm" to add this event to the Scheduler.

- ***ADD PRINTING EVENT***

The system loads the same menu already discussed at point D).

Edit days submenu:

- ***NEW DAY DEFINITION...***

Use this menu to create a new day definition.



Day Definition

Name: Christmas

Color: Red

☒ Yearly

Create Cancel

Choose a Name and a colour. Mark “Yearly” option if you want this day definition applied to all available years.



Calendar

December 2005 Legend

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	Christmas		28	29	30	31

When you defines a new day, please note that the system automatically uses the command chart present in that moment in your PC screen. This means that the first time you start working with the scheduler the default day is displayed.

Point a day, then with left mouse button click on it. A menu with all the available day definitions will appear.

- **DELETE DAY**

Delete the current day.

Windows submenu:

- **SHOW LEGEND**

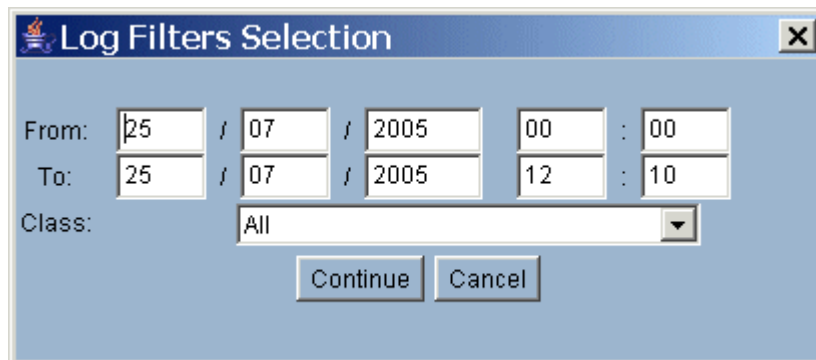
This menu shows all the command marker used.

- **SHOW CALENDAR**

This menu shows the current calendar association

- **SHOW LOGS**

This menu shows a brief log concerning the command schedule.



Log Filters Selection

From: 25 / 07 / 2005 00 : 00
 To: 25 / 07 / 2005 12 : 10
 Class: All

Continue Cancel

It is possible to filter all the command sent using “From”, “To” and Class.

- **SHOW COMMANDS**

This menu filters only the commands.

- **SHOW PRINTINGS**

This menu filters only the printing events.

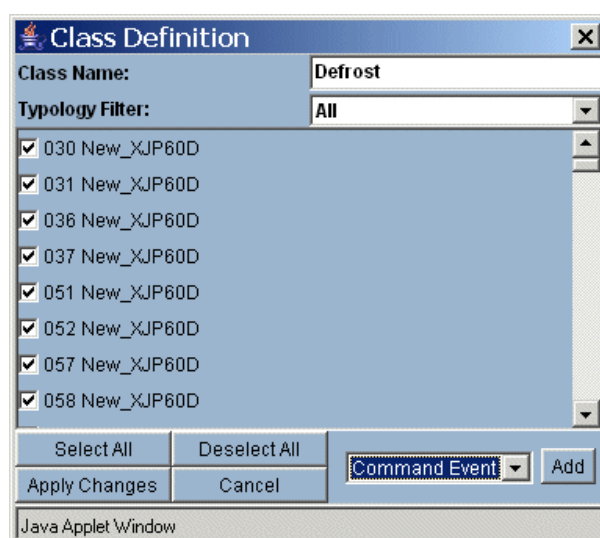
Days submenu:

- **DAYS**

It allows to switch between different days definition.

3.3.3.1 PRINTING EVENTS

If you want to manage a time-scheduled printout, please choose “Add printing Event”.



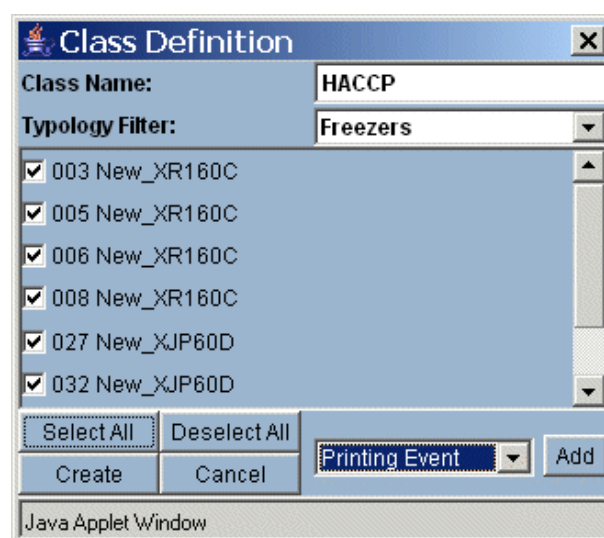
Class Definition

Class Name: Defrost
 Typology Filter: All

- ☒ 030 New_XJP60D
- ☒ 031 New_XJP60D
- ☒ 036 New_XJP60D
- ☒ 037 New_XJP60D
- ☒ 051 New_XJP60D
- ☒ 052 New_XJP60D
- ☒ 057 New_XJP60D
- ☒ 058 New_XJP60D

Select All Deselect All
 Apply Changes Cancel Command Event Add

Java Applet Window



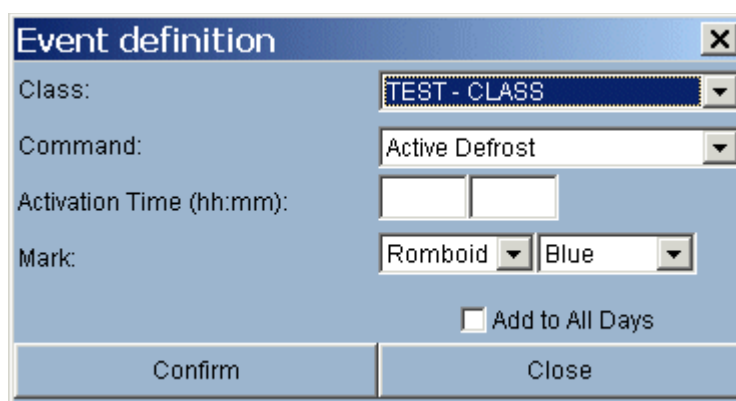
Class Definition

Class Name: HACCP
 Typology Filter: Freezers

- ☒ 003 New_XR160C
- ☒ 005 New_XR160C
- ☒ 006 New_XR160C
- ☒ 008 New_XR160C
- ☒ 027 New_XJP60D
- ☒ 032 New_XJP60D

Select All Deselect All
 Create Cancel Printing Event Add

Java Applet Window



Event definition

Class: TEST - CLASS

Command: Active Defrost

Activation Time (hh:mm):

Mark: Romboide Blue

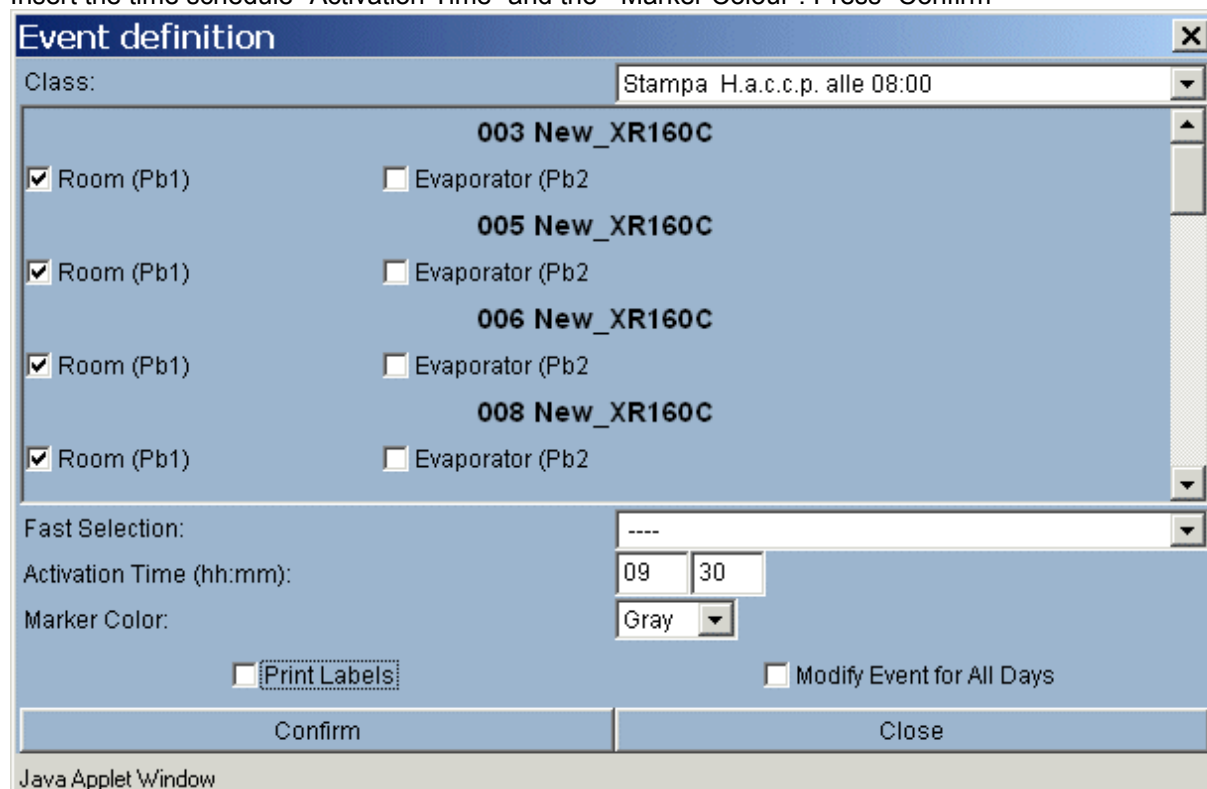
☐ Add to All Days

Confirm Close

Choose a command, then fill in “Activation Time”. Choose a marker and its colour. Push “Confirm” to add this event to the Scheduler.

After having selected “Add Printing Event”, use the drop-down menu “Fast Selection”, or if you prefer you can also select all the analog values manually.

Insert the time schedule “Activation Time” and the “Marker Colour”. Press “Confirm”



Event definition

Class: Stampa H.a.c.c.p. alle 08:00

003 New_XR160C

☒ Room (Pb1) ☐ Evaporator (Pb2)

005 New_XR160C

☒ Room (Pb1) ☐ Evaporator (Pb2)

006 New_XR160C

☒ Room (Pb1) ☐ Evaporator (Pb2)

008 New_XR160C

☒ Room (Pb1) ☐ Evaporator (Pb2)

Fast Selection: ----

Activation Time (hh:mm): 09 30

Marker Color: Gray

☐ Print Labels ☐ Modify Event for All Days

Confirm Close

Java Applet Window

For instance the “The fast selection” set to “H.A.C.C.P Probe 1” produces the following output:

XWEB 500 - H.A.C.C.P. printout

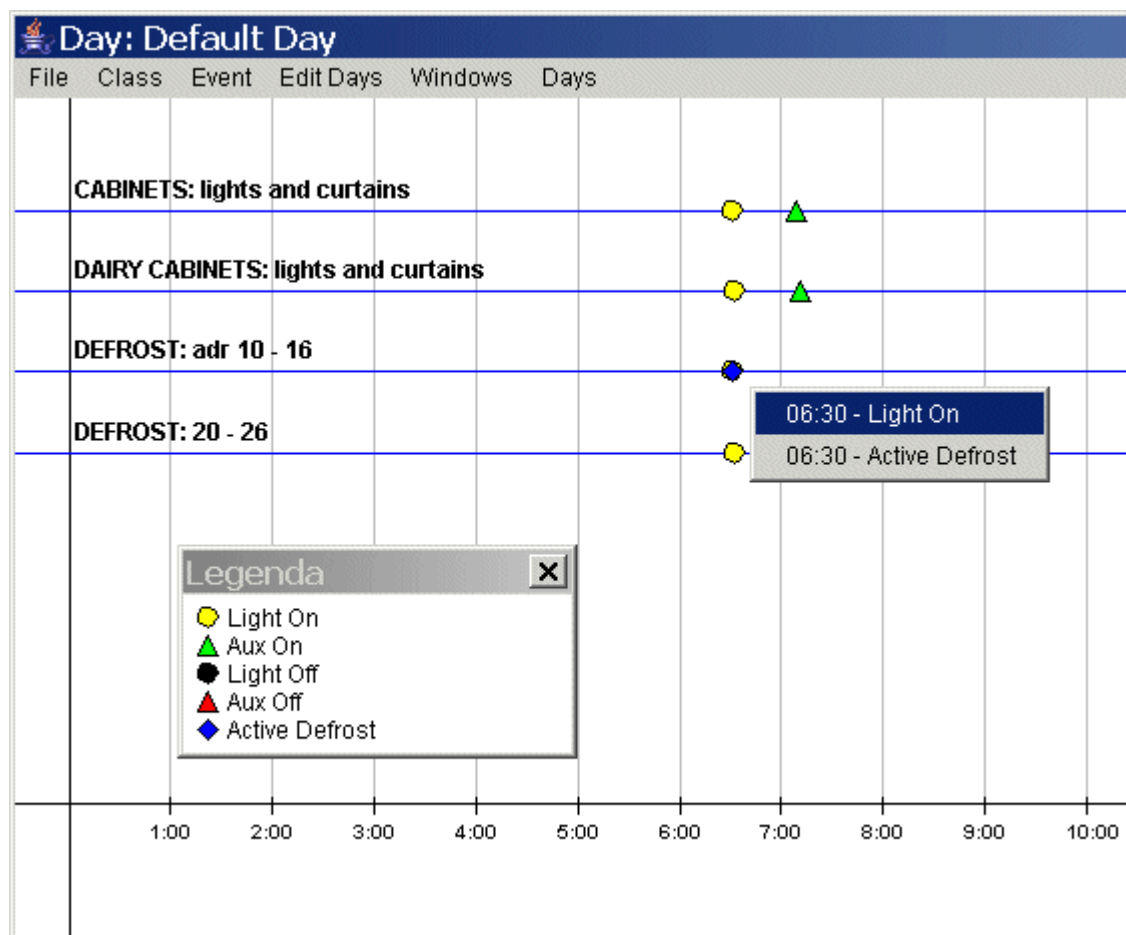
```
date: 22.11.05      time: 15.19

003 New_XR160C      - - -
005 New_XR160C      2.8°C
006 New_XR160C      28.4°C
008 New_XR160C      28.1°C
010 New_XR775C      0°C
014 New_XR170C      - - -
019 New_XT120C      - - -
027 New_XJP60D      - - -
032 New_XJP60D      - - -
035 New_XJP60D      - - -
038 New_XJP60D      - - -
043 New_XW260L      - - -
044 New_XW260L      - - -
045 New_XW220L      - - -
053 New_XJP60D      - - -
164 New_XJP60D      - - -
197 New_XH260L      - - -
222 New_XC911M      - - -
```

It is shown Site name "XWEB 500", printout name "H.A.C.C.P. printout", date and time, address of the controllers, name of the controllers and analog values.

3.3.3.2 USING THE SCHEDULER

Once you have created a schedule it is possible to check or modify an existing event in a very simple way. Use left mouse button and click on it. If there is a marker overlapping (this means that 2 or more events start at the same time), the applet will show you a brief list of all the event available. With left mouse button you can select the one you want to modify or delete.



3.3.4 ALARMS

3.3.4.1 ALARM TYPOLOGY AND ALARM LEVELS

The alarm typology is a list of alarm events designed by the user to describe the possible alarms that the instruments can generate.

In this way similar alarm events can be grouped together under a unique identification label, so high and low temperature alarms can be defined as “Temperature alarms” or the high and low pressure alarms belong to “Pressure alarm” identification.

The Alarm Level list is also designed and named by the user. Each alarm level can be assigned with one or many alarm typologies.

The alarm level starts the appropriate action in case of alarm event and depending on the level of alert it transfers the information via fax or e-mail with appropriate messages or turn on relays etc.

Receiver's Address Book						
Select:	-Select-		Name:			
Fax number	SMS number	e-mail address	Calendar			
			-Select-		Edit New	
Receiver:		Crea				

Alarm level					
Select:	-Select-		Name:		
Receivers	Fax	SMS	e-mail		
1	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Relays setup <input type="checkbox"/> Alarm 1 <input type="checkbox"/> Alarm 1 <input type="checkbox"/> Buzzer
2	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Level:		Crea			

Typology					
Select:	-Select-		Name:		
Level:	-Select-		Delay (min):	Accumulation (min):	
			0	0	
Fax header	SMS header	email header			
Typology:		Crea			

3.3.4.2 DESTINATION OF THE ALARM MESSAGES

The list of the destinations contains the users (directors, maintenance personnel, assistance etc.) enabled to receive the alarm notification.

The XWEB 500 is capable of transferring the alarm message through Fax or e-mail.

- **To insert a new item**

Click into the field “Name” and insert the appropriate word or words.

Click on “Insert” to add the new value.

- **To change the setting**

Click into Selection and find the desired item from the list.

Click into the desired fields and change them with the appropriate values.

Click on “Modify”.

- **To delete an item**

Select the user to delete.

Click on “Cancel”.

- **To delete all the items of the list**

Click on “Cancel All”;

Confirm the operation if necessary. Wait for the screen refresh.

- **To reset the form**


Click on “new”.

For each receiver the calendar function is also suitable to enable the alarm sending procedure only during certain period of time. See Calendar chapter.

3.3.4.3 ALARM LEVELS

The alarm levels are organised as a list of items. Each named level provides to execute the right procedure to transfer the alarm notification to the receiver or receivers. They act just like a filter.

E.g: an alarm belonging to the “Temperature alarm” typology can be differently treated from the “no-link” alarm so as the destination and the kind of message is suitable to a proper information about the alarm event itself. The alarm level also assigns the number of receivers and the transmission mode (Fax and E-mail). It is also possible to switch on/off the status of the onboard relay. Check/uncheck AUX1 or AUX2 in the proper page. In the back of the unit you can find the relay outputs.

WARNING: 	Terminal blocks for relays AUX1 and AUX2 can not be used for switching high voltage loads (24V or higher). Use a low voltage circuit to manage your loads.
--	---

The easiest method to work with levels is to define three kinds of alarms corresponding to “Severe alarm”, “Standard alarm”, “Warning”. Each alarm typology, depending on its importance, can be linked to one of this three alarm level to alert different personnel.

It is also allowed to define as many alarm levels as the existing alarm typology in order to transfer complete information about each alarm origin.

Under the device configuration paragraph you will learn how to assign the designed alarm typologies and alarm levels to each instrument.

This multilevel structure gives the maximum flexibility and it comes to solve every kind of alarm management problem.

- **Insert a new Alarm Level and the attributes**

Click into “Name” and insert the word(s) that better represents the alarm e.g.: ”Severe Alarm”.

	Receivers	Fax	SMS	e-mail
1	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	-Select a receiver-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Level:

Relays setup

☐ Alarm 1
☐ Alarm 1
☐ Buzzer

- **To insert the Receiver**

Select the Receiver.

Click the kind of procedure to send the alarm (Fax, E-mail).

Click on “Insert” to add the new item.

- **To modify an item**

Select the item from the “Selection” roll down menu.

Modify the appropriate fields.

Click on “Modify”.

- **To delete an item**

Select the user to delete.

Click on “Cancel”.

- **To delete all the items of the list**

Click on “Cancel All”;

Confirm the operation if necessary. Wait the screen refresh.

- **To reset the form**

Click on “new”

- **To use the on-board buzzer**

Click on “Buzzer”. If the option is unchecked, during an alarm the buzzer will not be activated.

3.3.4.4 ALARM TYPOLOGY MANAGEMENT

The alarm typology list, designed by the user, groups the common alarm features of the instrument into an

unique definition. For instance all the temperature alarms that are not important can be defined by a typology named as “Normal Alarm” while the temperature alarms of the frozen food can be identified by the typology “Severe Alarm”.

The user can assign a typology name for the desired alarm event such as: High temperature, low temperature, High or pressure, open door, compressor oil, Frozen food, etc...

The user can define the accuracy of the alarm description

Each typology can define the following:

- One of the alarm level previously defined to send the alarm.
- The Delay time that defines the minimum duration of alarm. The alarm must be longer to be computed, otherwise the system will only record the event in the alarm historical list.
- The accumulation time that defines the time when the alarm will be sent. This time will be counted only if the alarm lasts more than its delay time.
- For each alarm the user can insert the appropriate word(s) that represent(s) the alarm transmission.

- **To inset a new Alarm typology**

Click into the “Name” and insert the appropriate word(s) to describe the alarm typology.

Assign the alarm level procedure under “Level”.

Define the “Accumulation” time and the minimum activation time or “Delay” of the alarm.

Insert the appropriate message header into the corresponding fields.

- **To modify the item**
From “Selection” find the desired item.
Change the wrong description.
Click on “Modify”.
- **To delete an item**
Select the item to delete.
Click on “Cancel”.
- **To delete all the items of the list**
Click on “Cancel All”;
Confirm the operation if necessary. Wait the screen refresh.
- **To reset the form**
Click on “new”

3.3.4.5 QUEUED MESSAGES

The fax message can be sent to a back-up number (“Second fax number”). If the first number is engaged or the line is unavailable, the system tries to send the message to the second fax number.

3.3.5 CALENDAR FUNCTION

The Calendar function is used to define if a function or a single event is active or not in the selected period of time.

Therefore the Calendar is suitable to include/exclude certain period of the day, month or year when it has to interact with some XWEB 500 procedures or for instance if the maintenance personnel is working on the unit. The resource (or any programmed procedure that the XWEB 500 has to follow) related to a Calendar is available “Enabled” only during the selected periods otherwise it is “Disabled” and it does not work.

The XWEB 500 use the Calendar as filter before activating the resource itself, if the resource is not Enabled in that period nothing happens.

The alarm procedure to inform an Assistance Centre or the light on function can be override by their appropriate Calendar programming.

The number of Calendars is not limited and each Calendar can manage more than one resource.

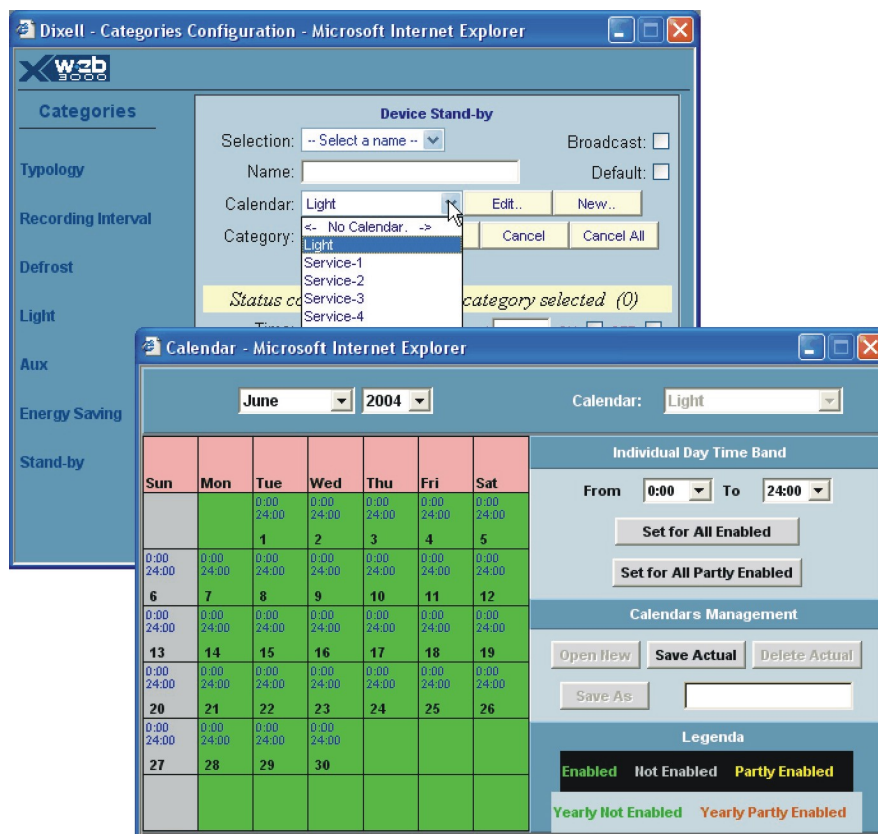
The Calendar is based on a weekly list extended for all the month, the tile colour shows the function related to that day

The day is divided in:

- Enabled → Green colour;
- Partly Enabled → Yellow colour;
- Disabled → Grey colour.

Disabled day represent the 24 ore where the resource is not active (eg holiday).

Enabled and Partly Enabled days can accept the period of activity of the resource.



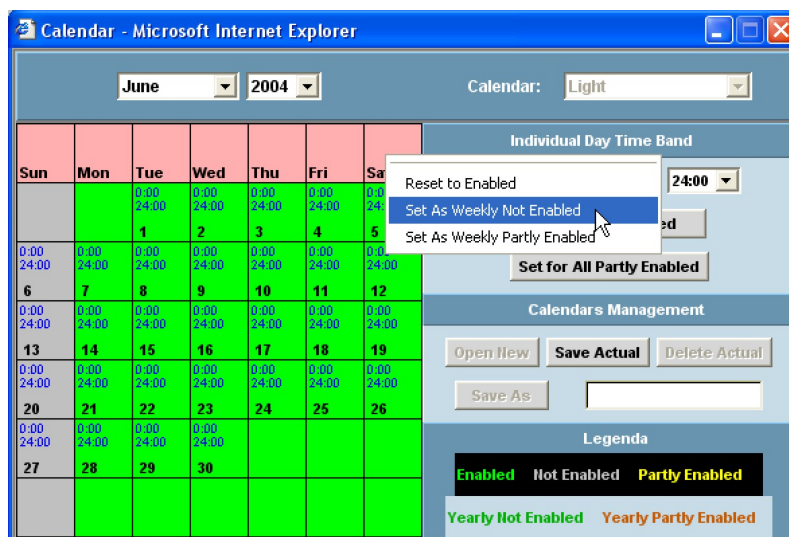
- **Setting the daily period activity for all the week**

(Eg: define Saturday and Sunday as Disabled, Wednesday as Partly Enabled).

Select the appropriate month:

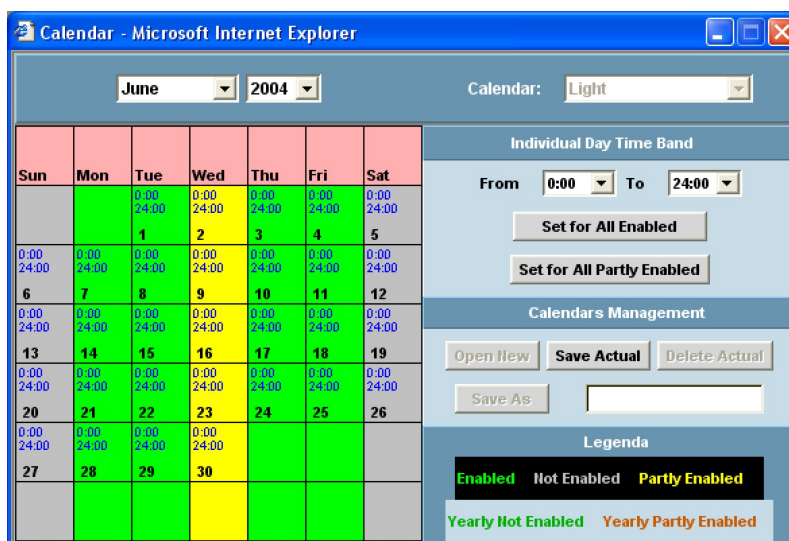
Point the mouse arrow on the rose tile "Saturday".

Click with the left button and then set the value as "Weekly not Enabled". The tiles become Grey.

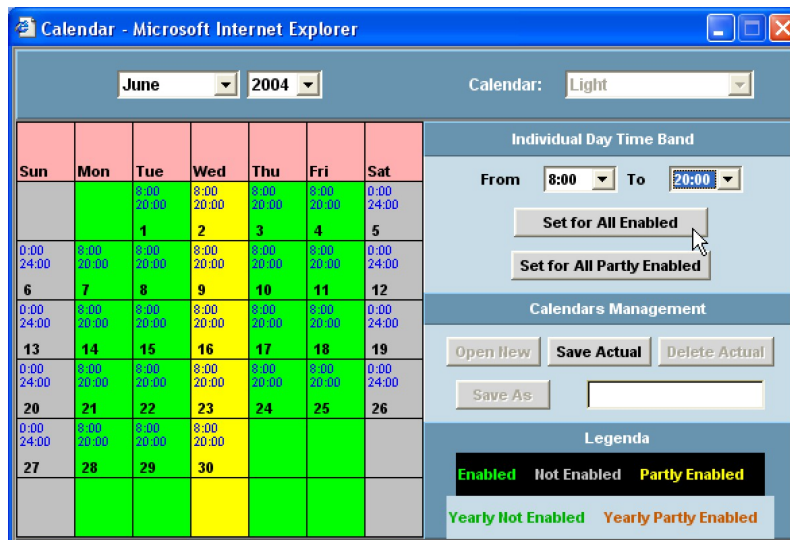


Repeat the operation for “Sunday”. The tiles become grey.

Click with the left button of the mouse on the rose tile “Wednesday” and select “Set As Weekly Partly Enabled”. The tiles become yellow.



- Define the period of activity of a day**
 (Eg: from 08:00 to 20:00 for Enabled day and from 08:00 to 13:00 for Partly Enabled).
 Under the “Individual Day Time Band” click into “From” and set 08:00 then click into “To” and set 20:00.
 Click on the button “Set for All Enabled” to active the new period for the Enabled day.

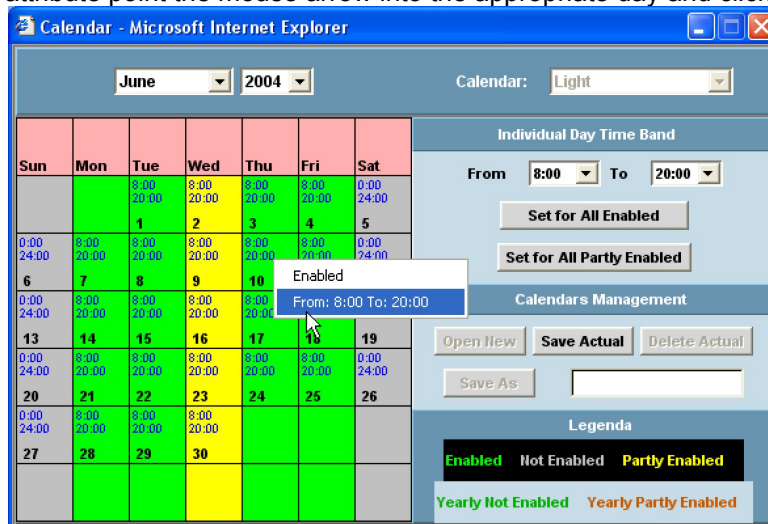


All the working days (Enabled) will follow the new times.

Repeat the same operation to define the new period for the Partly Enabled days but clicking on “ Set for All Partly Enabled ”

- DAY ATTRIBUTE**

To verify the day attribute point the mouse arrow into the appropriate day and click the right button.



- Single day setting**

The attribute of a single day can be defined as follow:

Point the mouse arrow into the appropriate day;

Click on the left mouse button and select from the list the new attribute:

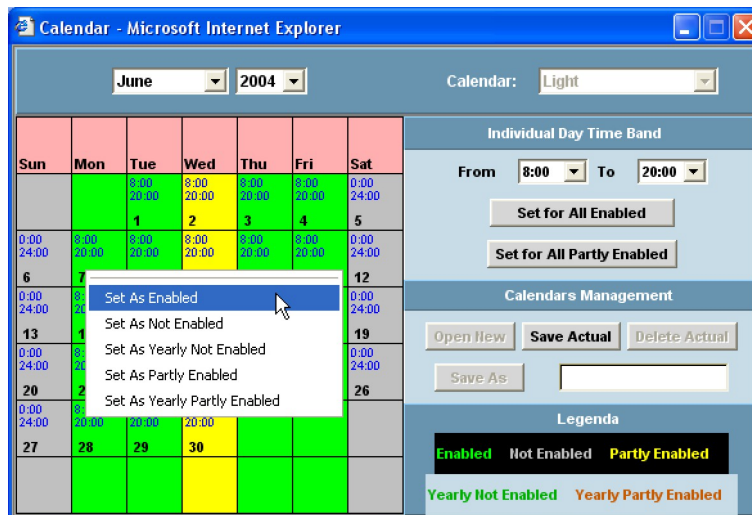
Set As Enabled → Only that day as Enabled.

Set As Not Enabled → Only that day as Not Enabled.

Set As Yearly Not Enabled → Only that day as Enabled for all the years.

Set As Partly Enabled → Only that day as Partly Enabled.

Set As Yearly Partly Enabled → Only that day as Enabled for all the years.



- **Select a limited period of days**

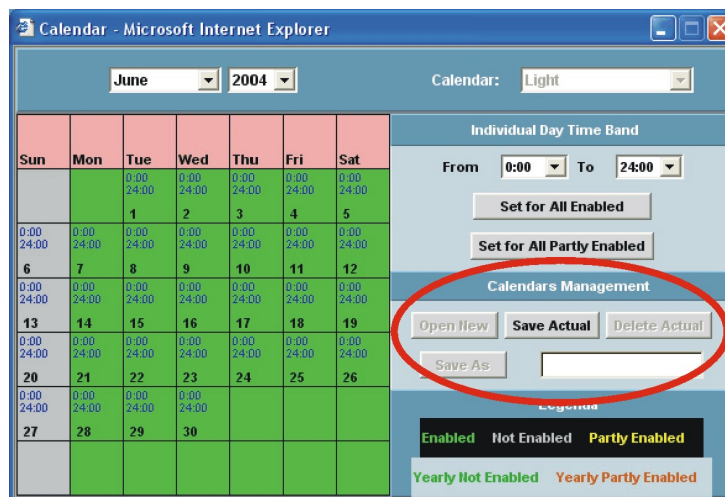
To define a common attribute only to some days.

This allows to set a holiday period for one or more desired months of the year.

- Point the mouse on the first day desired, click the left button.
- Keeping the left button pushed move the pointer slightly through the next days to be included.
- Release the mouse button and select the proper attribute, all the selected tiles will change into the new corresponding colour.

- **Calendar Management**

Under this section the three button allows to save a new calendar format, load or delete it.



- Open New: to create a new calendar. As default Sunday and Saturday are not enabled.
 Save Actual: to save the new or modified calendar structure.
 Delete Actual: to delete the displayed calendar.
 Save As: to save the displayed calendar with a new appropriate name.

3.3.6 DEVICE CONFIGURATION

The configuration of the devices allows to assign the appropriate monitoring system attributes.

The configuration is subordinated to the manual or automatic search procedure to create a list of the available instruments.

For each kind of device XWEB 500 will show only the specific information of the controller itself and the attributes of the available digital and analogue inputs of the instrument. Only this part of configuration admits the association of the categories previously defined such as the alarms, typologies and time recoding.

If during the configuration it is necessary to use a category to associate to a new feature of the instrument but the category it is not present, the user can step back into the Categories menu, create the new category and then restart with the device configuration.

3.3.6.1 SELECT A DEVICE

Please go to “Configuration” -> “Devices” roll-down menu. This window will appear:



By using “Device” drop-down menu you can select which controllers to show.

Name: <input type="text" value="Fruit and veg."/>	Typology: <input type="text" value="Cabinets"/>	RS 485 address: <input type="text" value="50"/>
Recording interval: <input type="text" value="5 minutes"/>	Read data: <input checked="" type="checkbox"/>	Record data: <input checked="" type="checkbox"/> Enable buffer: <input checked="" type="checkbox"/> RTC: <input type="checkbox"/>

Analog Inputs						
Original name	Name	Single View	Reg.	Run Time	Layout	Unit
Room (Pb1)	Room temp.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	°C
Evaporator (Pb2)	Evaporator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	°C
Display (Pb3)	Display	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	°C

Set Point						
Original name	Name	Single View	Reg.	Run Time	Layout	Unit
Set Point	Set Point	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	°C

Digital Inputs						
Original name	Name	Single View	Reg.	Run Time	Layout	
Auxiliary	Auxiliary circuit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Output Status						
Original name	Name	Single View	Reg.	Run Time	Layout	
Defrost	Defrost	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Light	Lights	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fan	Fans	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Cooling	Cooling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

If the instrument has not been already renamed the identification name is: "New_Model-name" where:

- "New" means that the name has been assigned automatically by the system;
- "Model-name" define the instrument model.

Instead of "xxx_New_Model" the user can insert the new appropriate name for this instrument.

3.3.6.2 ASSIGN THE NAME OF THE CONTROLLER

Name: <input type="text" value="Fruit and veg."/>	Typology: <input type="text" value="Cabinets"/>	RS 485 address: <input type="text" value="50"/>
Recording interval: <input type="text" value="5 minutes"/>	Read data: <input checked="" type="checkbox"/>	Record data: <input checked="" type="checkbox"/> Enable buffer: <input checked="" type="checkbox"/> RTC: <input type="checkbox"/>

After selecting the device, click into the "Name" field. Insert the new name such as "Frozen food_001". Assign the proper sampling "Interval", decide if you want to read and record data from this instrument by checking/unchecking "Data Reading" and "Recording" boxes.

"Data Buffer" is an useful function that stores with the maximum speed available lots of data values (regardless of sampling interval) when an alarm occurs. Ten minutes of data values before and 5 after the alarm are recorded at maximum speed if "Data Buffer" box is checked. Finally if you need to synchronize the on-board RTC of the controller, select RTC.

Click "Modify" now or at the end of the whole configuration.

3.3.6.3 ASSIGN THE CATEGORY TO THE DEVICE “DEVICE CATEGORY SETUP”

Be sure of having selected the right instrument under the “Device” menu.

Depending on the instrument model there are different available categories to define the attributes of the instrument itself. If you do not find the right one maybe it is not defined or it is not available for that instrument. By itself XWEB 500, after the recognising procedure, assigns the default categories (if you checked the box in category window) to the devices connected to the RS 485. To change the category click inside the field and select the appropriate item.

Click “Modify” now or at the end of the whole configuration.

3.3.6.4 ASSIGN THE ALARM TYPOLOGY

Alarms					
Origin	Name	Typology	Sh.	Rec.	Send
No link alarm	No link alarm	no link		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Low Value Pb1	Low Value Pb1	Temperature Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Value Pb1	High Value Pb1	Temperature Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Error Pb1	Error Pb1	Generic Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Be sure of having selected the right instrument under the “Device” menu.

ALARM ORIGIN: depending on the instrument model there are different available alarms, if you do not find the right one it means that it is not available for that instrument.

NAME: each alarm can be assigned with an appropriate label defined by the user, this label is also used when it is displayed by the system. Click inside the “Name” and modify it.

TIPOLOGY: links alarm type to the proper Alarm typology.

If you do not find the proper action in it, step back to the Alarms definition to insert the new features into a new alarm typology.

SH (Show): when it is enabled th alarm is showed in main page.

SND (Send): when it is enabled the alarm is sent by XWEB 500.

REC (Recording): when it is enabled the corresponding alarm is logged.

Click “Modify” now or at the end of the whole configuration.

3.3.6.5 DEFINE THE DIGITAL, ANALOGUE INPUTS AND THE STATUS

The middle area is dedicated to the analogue inputs (probe), setpoint, digital inputs, devices status, and commands assignments.

Analog Input					Set Point				
Origin	Name	Unit	Sh.	Rec.	Origin	Name	Unit	Sh.	Rec.
Probe	--> My Probe name <--	°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Set	Setpoint	°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Input					Device Status				
Origin	Name		Sh.	Rec.	Origin	Name		Sh.	Rec.
Defrost Start	Defrost Start		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	On / Off	On / Off		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Generic DI	--> My Digital Input		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Digital Input	Digital Input		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					Defrost	Defrost		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outputs Status					Commands				
Origin	Name		Sh.	Rec.	Origin	Name		Sh.	Rec.
					Device OFF	Device OFF		<input checked="" type="checkbox"/>	
					Device ON	Device ON		<input checked="" type="checkbox"/>	

NAME: The first time each name is displayed by following the internal XWEB 500 archive of standard feature of the instruments. Each definition can be renamed when necessary to give the proper meaning. Beware of the difference between integer and decimal value. Instruments are factory preset to decimal point, so if you change this value to integer you need to make the same change inside XWEB 500. All default labels are intended as decimal, when you change to integer a postfix “-I” is shown. It may happen that you move to integer using advanced properties (see Appendix A), then coming back to label name and changing it without using “-I” you completely loose the information you are displaying integer. This may be a problem because when you come back to advanced section there is no more difference between decimal and integer.

To change a name simply click inside its field and modify it.

Unit: The analogue input is followed by the proper unit of measurement, change the unit by clicking in it then insert the new value. Beware that in this window you can change only the label of the unit of measurement. In Advanced section you can change the behaviour of the instrument (e.g. Celsius or Fahrenheit degree)

Click “Confirm” now or at the end of the whole configuration.

- **Delete one device from the list**

Stop acquisitions. Select the instrument to delete.

Click on “Cancel” in “Action” menu.

- **Advanced function**

The “Advanced” key allows to reach another configuration area dedicated to the instrument setup.

This area is very dangerous because this configuration defines important features that can badly affect the unit if not properly set.

Take care of this advice and ask authorised personnel before trying any kind of setting.

You can find more complete information in Appendix A.

3.3.6.6 CLONE FUNCTION

This function is intended to let the user save a lot of time during the first setup of the XWEB 500.

By using this function the system will broadcast the current instrument setup to all the other that are compatible. The compatible instruments are only the ones who belong to the same model. In this situation the user is requested to make only one setup, then using “clone” button in few seconds (depending on the total number of instruments) the configuration will be applied to all the other controllers.

In the first step you are required to make a complete setup regarding both standard and advanced section.

When you are ready, please go to “Configuration” -> “Devices” roll-down menu. This window will appear:

Source device									
RS 485 address		Model				Name			
1		XJP60D_000E000E0001				Acq. module 1			
Target device									
RS 485 address		Name		Clone		Tipologia		Interval	
				<div><div>+</div><div>-</div></div>				<div><div>+</div><div>-</div></div>	
2		module 2		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3		module 3		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
4		module 4		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
5		module 5		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
6		module 6		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
				Clone					

In the upper part you can see information concerning the name of the instrument that the system will use as base model ("Source device").

In our example we have a XJP60D whose name is "Acq. module 1". It is possible to change the name of the "Target device" by clicking in the field "Name".

By clicking "Clone" button XWEB 500 begins to broadcast this setup to all the compatible instruments. Once it has finished a summarising window will appear. It is also possible to decide to clone both the typology and the recording interval by ticking the corresponding columns.

3.4 STARTING MONITORING DATA

At this point it is possible to start the server. Click on "Modify". This new window will appear

Server	
Server:	Linux
Resources:	Ram 96% Flash 38%
IP Address:	192.168.0.151
Data Log:	0.0%
Data Reading:	Active
Data Recording:	Not Active
Alarm Sending:	Active
Last Connection:	22/06/2006 10:16:52
Last User:	dixell
Server Status:	OK



Check/uncheck the proper action and push "Apply".

Data reading:	XWEB 500 will only read data coming from RS 485.
----------------------	--

Recording:	XWEB 500 will record data coming from RS 485.
Alarms TX:	XWEB 500 will send alarms coming from controllers.

3.5 DEVICES MENU

In this menu you can find all the web pages that allow the final user to interact with the controllers connected to the RS485.

3.5.1 SINGLE VIEW

Select SINGLE VIEW to show all the data corresponding to a selected instrument. You will be informed about probe values, digital inputs, device status, alarms for all the time you are connected.

- **How to select a device and show the data**

The screenshot shows the XWEB 500 web interface. On the left is the 'Xweb 500' logo. To its right is the 'Device filter' section, which contains two dropdown menus: 'Device filter' (showing '-All typologies-') and 'Select a device' (showing '<-Select->'). Further right is an 'update' section with an 'Auto' checkbox, a text input field containing '10', and a green 'update' button. On the far right is a 'View' section with a 'Parameters' button.

The devices can be selected using the Device filter in order to reduce the number of items of the search. From the “Device filter” roll down menu select the category to which the instruments belong to. Then, under the “Select a device” menu select the instrument you are interested in.

After some seconds the whole situation of the instrument will be loaded and displayed. The information is divided in horizontal rows such as analogue inputs, Set points, digital inputs, device status, outputs status, alarms and commands. A grey label means a function not active at that moment, on the contrary a blue label means an activated function.

Analog Inputs					
Room (Pb1)	25.4	C			
Evaporator (Pb2)	-27.9	C			

Set Point					
Set Point	35.0	C			

Digital Inputs					
Door Switch	NOT ACTIVE				
Generic Alarm	NOT ACTIVE				

Device Status					
On / Off	ACTIVE	Keyboard	NOT ACTIVE		
Defrost	NOT ACTIVE	Energy Saving	NOT ACTIVE		

Output Status					
Defrost	NOT ACTIVE	Fan	ACTIVE		
Alarm	NOT ACTIVE	Cooling	NOT ACTIVE		

Alarms					
Low Value Pb1	NOT ACTIVE	Error Pb2	NOT ACTIVE	External Alarm	NOT ACTIVE
High Value Pb1	NOT ACTIVE	Error Pb3	NOT ACTIVE	EEPROM Failure	NOT ACTIVE
Error Pb1	NOT ACTIVE	Open Door	NOT ACTIVE		

Commands					
Device ON		Active Defrost		Keyboard LOCK	

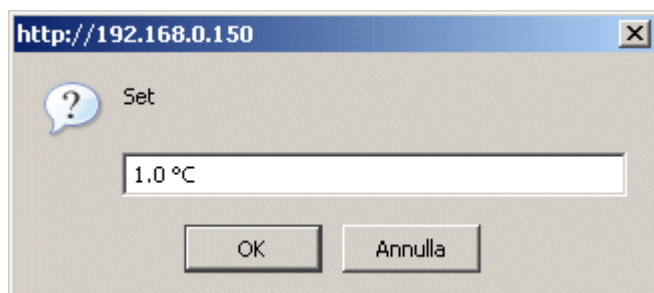
Remember that you are looking at a still page therefore the instrument information is loaded and displayed then there is no more data coming from the server. The screen refresh with the new data can be executed automatically by selecting the "Auto" box and decide the updating interval by clicking into the time box on the right side. Click on "Update" button to update the window with manual procedure.

- **Change set point function**

You can change on the fly the set point value by clicking inside the box:

Set Point					
Set Point	35.0	C			

A window will appear, asking you the new value, confirm the new set point by clicking OK button.



- **Commands**

The last stripe of information contains the available commands for that instrument. Use them to operate on the instrument. Take care of the operations you make with commands.

Click on the interested function button, after sending the command the information of the new status will be automatically updated and displayed.



Beware that “Stand By” commands turn off the instruments.

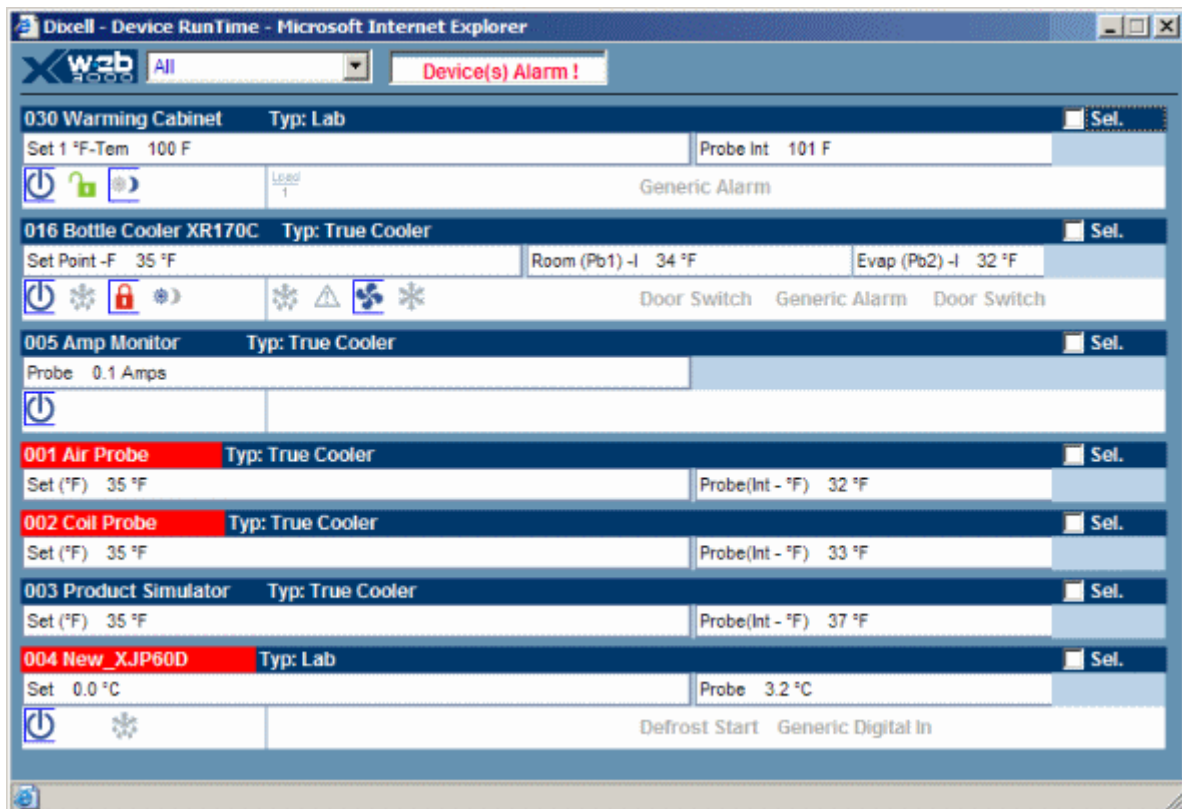
3.5.2 RUN TIME

The run time function provides to display into a unique window many devices together. This is dynamic page and the data showed are updated in real time (the period depends on the number of instruments).

This page based on the modern Java programming language, therefore it is necessary to have the Java Virtual Machine installed on the client PC.

Normally the JVM is already installed into the PC operative systems, (if not present see Minimum requirements section in this manual). A warning message will propose you to use it. Accept it, the software applet is guaranteed free from viruses.

In the Home page select the “Run time” from the “Devices” menu. The first part is referred to the selection of the Category of the devices installed in order to save loading time, while the selection “All” will show all the instruments. After selecting the proper category, XWEB 500 begins sending data to your PC. The first time you load the RUN-TIME windows, you are requested to accept the start of JVM program. All applets that use JVM are certified by Dixell. Please answer to the warning windows by clicking on the “OK” button (the message text depends on the release of JVM and on operative system of the PC). Then the Run Time page will start to display the selected devices with their information. If one or more instruments have an active alarm event, the message box will indicate the alarm situation with a red “Alarms” label. If whole situation of the instrument displayed is normal, the message box will show “Device(s) OK !” in green colour.



Each device is represented by an horizontal row that includes as many rows as many information are available from the instrument.

For each row, the blue bar contains the address and the instrument name followed by the typology to which the instrument belongs to. At the end of the blue bar there is the command box "Sel".

The second row of a main row contains the set-point and the analogue inputs like the probe values or other peculiar information of the instrument read-outs such as the electrical measurements of a net analyser.

The third row of a main row is divided in three parts: the first area contains the icon symbols of the instrument status, the second area contains the icon symbols of the instrument outputs (relays) and the third area shows the digital input status with their complete description.

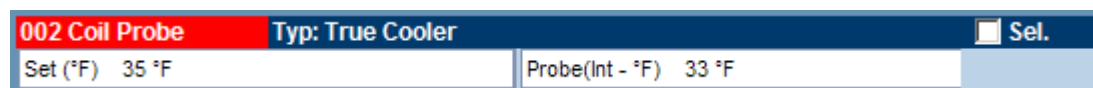
An icon not surrounded by a blue square means the corresponding function is not active. The active status of an instrument function is represented with the corresponding blue icon.

More information about the icon function can be red, pointing the mouse arrow over a single icon, on the left down corner of the browser border.

- Devices in alarm**

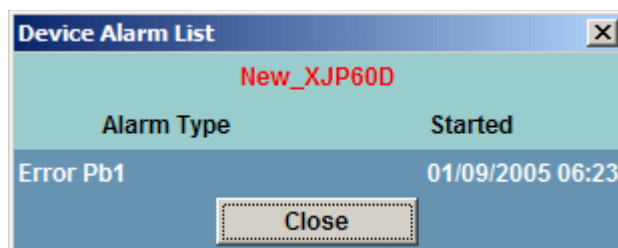
In case of alarm event the corresponding instrument is signalled with the red blinking description.

Immediately also the message box, on the top of the browser bar, will indicate the alarm situation with a red "Alarms" label.



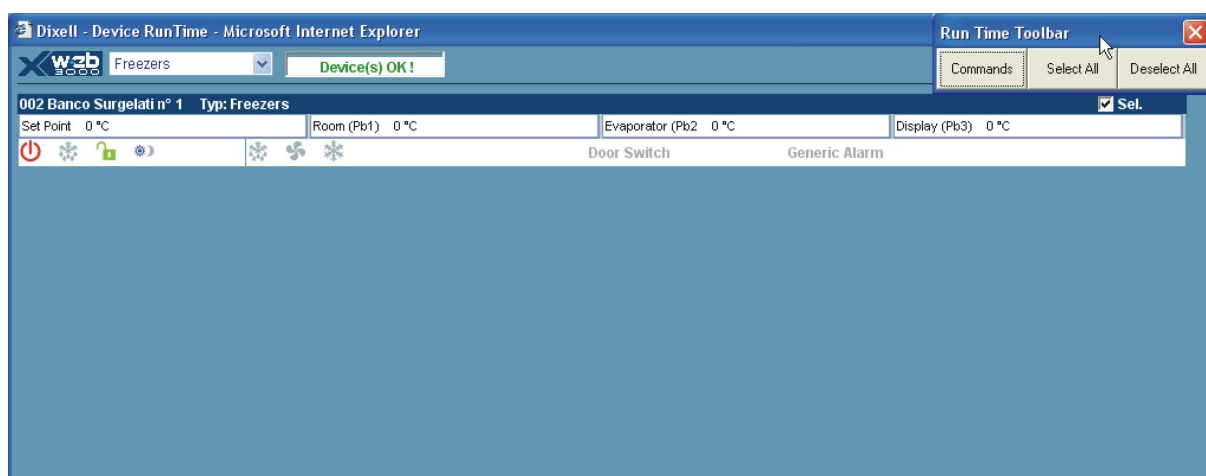
Find the complete alarm description clicking on the row blue bar.

A pop up message box will appear, inside you will find the list of the actual alarms that also includes the starting date of each event.



- **Send the commands to devices**

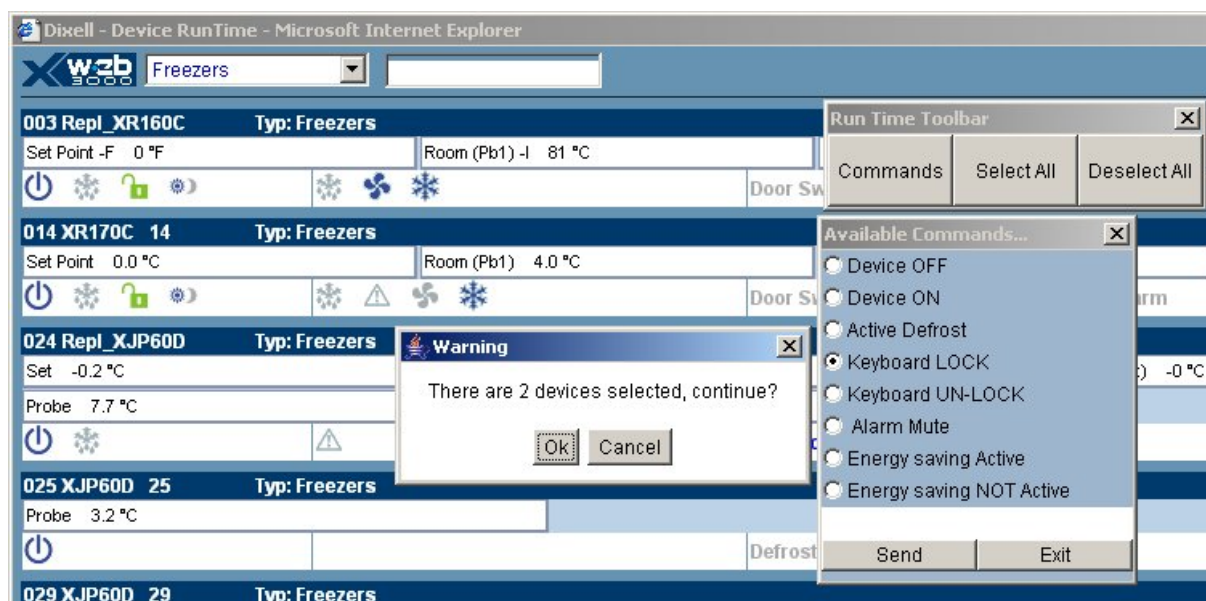
From the run time page you are allowed to interact with the instruments by sending commands to them. The user is requested to select the instrument or the instruments to which the command has to be sent. To do that click into the “Sel.” box to select the instrument.



On the right top side of the browser border will appear a Toolbar which contains the Commands button and the possibility of selecting or deselecting all the instruments together.

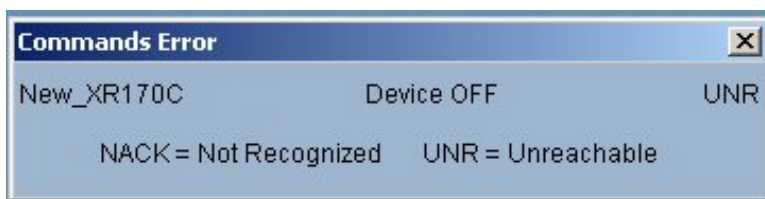
To define the command to send click on “Commands” and immediately a choice list will appear. For multiple selection of some or all instruments the available commands will be only the common commands among the instrument selected.

Select the command and click on “Send” button. Before proceeding a message box will tell you how many instruments are involved.



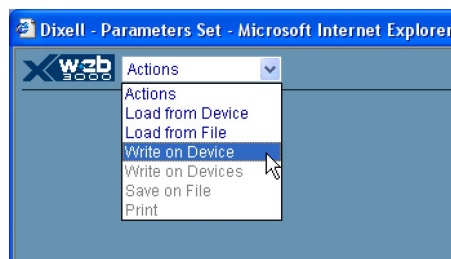
The popup box also shows, with a blinking message, the status of the operation just executed and then also the ending report result.

If an error occurs the corresponding diagnostic message is displayed.



3.5.3 PARAMETERS

The Parameter function allows management of the parameters of a selected device. The parameters can be displayed and modified. From the Home Page, select the “Parameters” item from the “Devices” menu. From the “Actions” select one of the following functions:



- Load from Device:** • to load and display the parameters from a device;
- Load from File:** • to load and display the parameters from the Hard Disk of the Client PC
- Write on Device:** • to updated the displayed parameters into the selected device;
- Write on Devices:** • to updated the displayed parameters into the selected devices
- Save on File:** • to save the displayed parameters into the Hard Disk of the Client PC.

To show the parameters of a device select “load from device” from the “action” menu:
Use the filter mask to limits the range of the device selection:

- DEVICE** • To filter among the different typologies (“All” includes all the instrument);
- TYPOLOGY:**
- Select a Device:** • To select the desired instrument;
- Select a Group:** • To defines only a limited group of parameters to load;
- Select “Menu”:** • To defines which is the parameter level to use (Pr1, Pr2, All).

After filling the filter mask, click on “Read” button to load the parameter from the instrument to the client pc.

The loading time depends on the number of parameter selected.

LABEL	DESCRIPTION	ACTUAL	NEW	MIN	MAX	UM	Pr	SAVE
Hy	Differential	2	<input type="text" value="2"/>	1	45	*F	1	<input type="checkbox"/>
LS	minimum Set Point	10	<input type="text" value="10"/>	58	35	*F	2	<input type="checkbox"/>
US	Maximum Set Point	40	<input type="text" value="40"/>	35	302	*F	2	<input type="checkbox"/>
odS	Outputs activation delay at start up	0	<input type="text" value="0"/>	0	255	min	2	<input type="checkbox"/>
Ac	anti Short cycle delay	1	<input type="text" value="1"/>	0	30	min	1	<input type="checkbox"/>
cct	Compressor ON time during fast freezing	00:00	<input type="text" value="00:00"/>				2	<input type="checkbox"/>
con	Compressor ON time with faulty probe	15	<input type="text" value="15"/>	0	255	min	2	<input type="checkbox"/>
coF	Compressor OFF time with faulty probe	30	<input type="text" value="30"/>	0	255	min	2	<input type="checkbox"/>
cF	Measuring unit	*F	<input type="text" value="F"/>				2	<input type="checkbox"/>
rES	Resolution	in	<input type="text" value="i"/>				1	<input type="checkbox"/>
Lod	Display visualization	P1	<input type="text" value="P1"/>				2	<input type="checkbox"/>
Set	Set point	35	<input type="text" value="35"/>	10	40	*F	1	<input type="checkbox"/>

The parameter table is defined by these columns:

- Label:** The parameter label as described into the instruction manual of the instrument itself;
- Description:** Description of the parameter function;
- Actual:** Actual value of the parameter loaded from the instrument;

New: New value of the parameter decided by the user;
Min /Max: Minimum and maximum limits available for that parameter;
UM: Unit of measurement;
Pr: Parameter level of the parameter itself;
Save: Selection box to enable the parameter saving.

- **To change a parameter value**

To insert the desired value of a parameter click into New box.

Depending on the kind of parameter, it is possible to insert the value or select it from a drop-down list of available values.

To confirm the new value introduced click the mouse outside the “New” box area.

It is not allowed to set a value exceeding the minimum and maximum limits. In any case a wrong value is signalled with violet background colour of the box itself.

The user can change one or more parameters before sending back the new list.

- **To change the programming level**

Select 1 level or 2 level under the Pr column.

- **To send the new parameter map to the instrument**

After modifying the parameters, select “Write on Device” from the “Action” menu.

To confirm the operation click on the Ok button into the message box.

- **To send the new parameter map to the instruments**

The displayed parameter map can be sent to many compatible devices.

Select “Write on Devices” from the “Action” menu.

The message box will show all the compatible instruments with that map.

Select which instruments are included (or “All”).

Click on the “Write” button to start the procedure.

A warning box will appear reminding you how many parameters you are changing.

Each writing operation is described into the message box.

At the end of the operation a conclusive report will be showed.

- **To save the parameter in your Client PC**

The parameter can be saved into the hard disk of the Client’s PC, reloaded and used for other parameter programming.

With a displayed parameter list, click on “Save on File” from the “Action” menu.

Select the “Save” box to include the interested parameters.

Click on the “Save” button situated in the top right position.

Click on “Save All” button to save the complete list.

Some operative system installed into the Client PC can require to “Save” before proceeding.

From the next message box insert the name of the parameter map and then click on “Save”.

- **To load a parameter map saved into your Client pc**

Click on “Load from File” from the “Action” menu.

Use the find button to search among the files of the message box.

Click on find or insert the file name including the path. These system always proposes the last folder used during the last saving.

Confirm the name of the file to load.

Click on “Upload” to proceed.

- **To print the displayed map**

Click on “Print” from the “Action” menu.

Use the message box to select the print properties.

Confirm the printing to proceed.

3.5.4 LAYOUT FUNCTION

With this function it is possible to build up a Layout view of the system been monitoring.

The user can creates as many layers as he needs and place important information and data value coming directly from the instruments.

XWEB 500 uses 2 different menus to deal with Layout: one is “Layout Edit”, the other is “Layout Viewer”. Both of them use web-technology, so Java Virtual Machine is needed. More importantly that all data information is stored inside the XWEB server and it is pushed dynamically to your client. This means that according to the connection speed pages could take different loading time.

The Editor is the most important part, we start discussing it first.

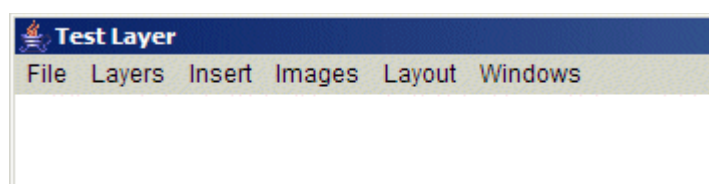
We strongly suggest to set client PC resolution to 1024 x 768 pixels and use the same resolution for the background images.

3.5.4.1 LAYOUT EDITOR

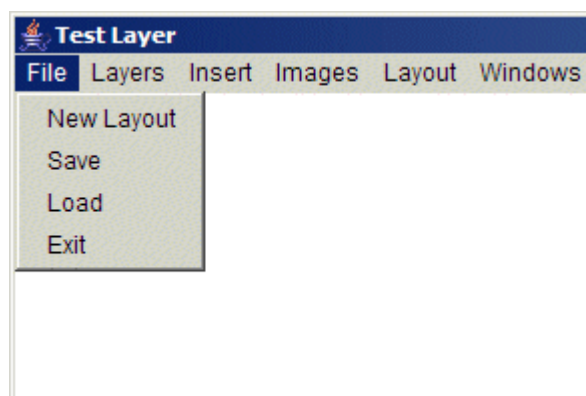
To start “Layout Editor”, go to “Devices” then choose “Layout Editor”.

If this is the first time you run the Layout, a blank windows will appear.

The available menus are:



File Submenu:



- **NEW LAYOUT**

This function is used when you want to start a new Layout. Beware that the system can only manages one layout per time. There is no possibility to save a Layout with a particular name and then build up a new one.

- **SAVE**

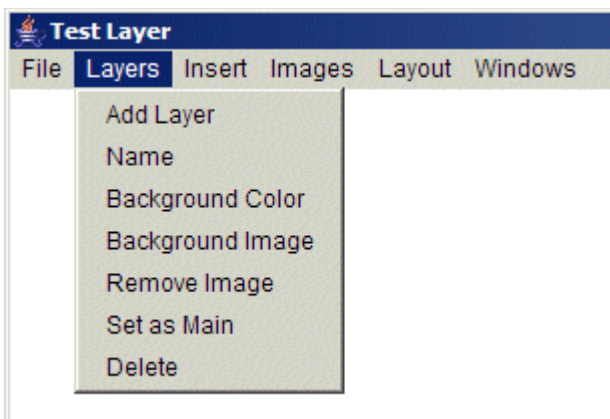
This function allow you to save the changes done till now. Beware that the system can not go back to a previous save, only the last one is available.

- **LOAD**

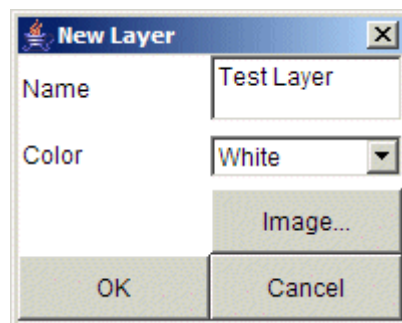
Load the last Layout

- **EXIT**
Closes the Editor.

Layers Submenu:



- **ADD LAYER**
It is used to add a new layer to the layout. Selecting it this windows will appear:



User has to compile "Name" with any text value, then he can choose the background colour and also a background image pushing "Image..." button. In this case a new window will appear:



Choose an image and press “Ok”. When you use images the system has to send them to your client. Depending on the speed of the connection the download procedure may take up to some minutes.

According to the client screen resolution the system will load up a new page. The real dimensions (width and height) come from the monitor setting of the client itself. The system later is capable of dynamically resize this value to show images and layers in a proper format. We strongly suggest making some test before proceeding with the complete layout design. Usually images are taken with a digital camera. Beware do not confuse this resolution value (e.g. megapixel 3, 4 or more) with the one of your monitor (800x600, 1024x768 pixels). When you take a digital picture, your camera saves it according to its setup. Once you download these photos to your PC you need to resize them to the value you want to use in the layout.

Example Table 1

Digital Picture resolution	File size RAW	File size JPG highest resolution
2048 x 1536 (3-megapixel)	9MB	~1,10MB
2272 x 1712 (4-megapixel)	12Mb	~1,47MB
2592 x 1944 (5-megapixel)	15MB	~1,82MB

With a image editing software you can resize all the picture to the proper size. Size also means kilobytes to download for the client. We suggest to use images not bigger than 40~50 Kb. Of course if you have a fast connection you may exceed this value. File format supported are: JPG and GIF. We strongly suggest to use JPG due to its better compression factor. As an example you can refer to the following table chart:

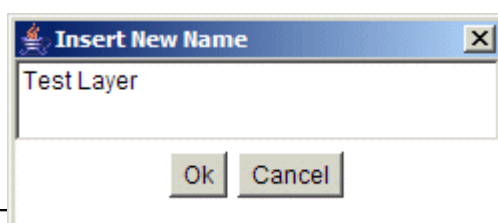
Example Table 2

File Resolution	Compression ratio	File Size
800 x 600 (outdoor image)	45%	64Kb
800 x 600 (outdoor image)	65%	44Kb
1024 x 768 (outdoor image)	45%	98Kb
1024 x 768 (outdoor image)	65%	67Kb

Actual file size, if you use JPG compression, depends on the picture you are compressing. Different pictures with same compression ratio and same file resolution, may have different file size.

- **NAME**

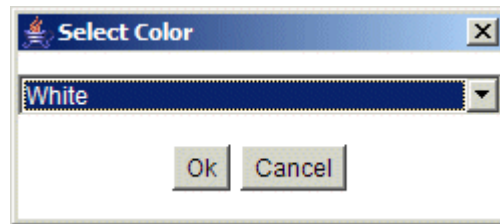
It is used to change the name of the layer:



Insert the new layer name and push “Ok”.

- **BACKGROUND COLOUR**

It is used to change to background colour of the page. Use the drop down menu to make a choice.



- **BACKGROUND IMAGE**

It is used to change the actual background image or to set an image as background. When you choose this option, the following windows will appear:



Choose an image and press “Ok”. When you use images the system has to send them to your client. Depending on the speed of the connection the download procedure may take up to some minutes.

- **REMOVE IMAGE**

It allows you to cancel the background image, if present.

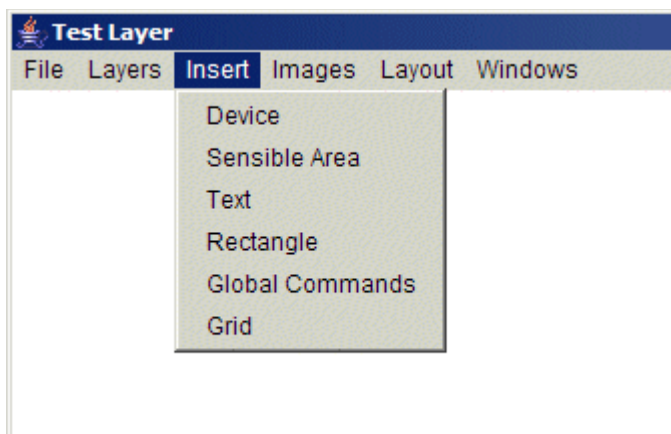
- **SET AS MAIN**

This function is very important. With this feature you can decide which is the homepage of the layout. Each time an user will load the layout viewer this is the page that firstly appears.

- **DELETE**

It allows the user to remove the actual layer from the layout.

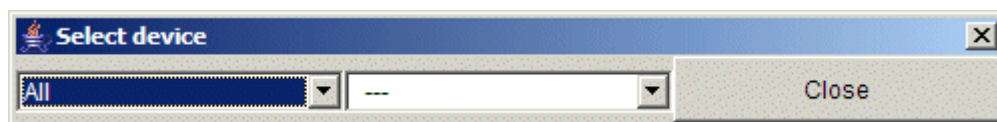
Insert Submenu:



- **DEVICE**

It allows you to place a real Instrument directly linked to the RS 485 serial line

The following windows will appear:



With the first drop down menu you can filter the instruments, with the second one you select the instrument you want to show in the layer. A new windows will appear:

Name of the instrument.

☒ **Name:** 010 Cella Carni

BG/TX/SZ White Black 10

Analog values.

☐ Set Point

☐ Sonda ambiente

☐ Sonda Pacco

BG/TX/SZ White Black 10

Digital Inputs.

☐ Porta Aperta ☐ Blink

☐ Allarme Esterno ☐ Blink

Bkg: White Font size: 10

Outputs.

☐ Sbrinamento ☒ Icon ☐ Motion

☐ Allarme ☒ Icon ☐ Motion

☐ Ventole ☒ Icon ☐ Motion

☐ Solenoide ☒ Icon ☐ Motion

Bkg: White

Place Finish

You can check/uncheck the name. It is also possible to change:
BG= background colour
TX= text colour
SZ= font size



You can check/uncheck the values or modify them. It is also possible to change:
BG= background colour
TX= text colour
SZ= font size

You can check/uncheck the values or modify them. It is possible to let them blink (if active) or to change:
BKG= background colour
SZ= font size

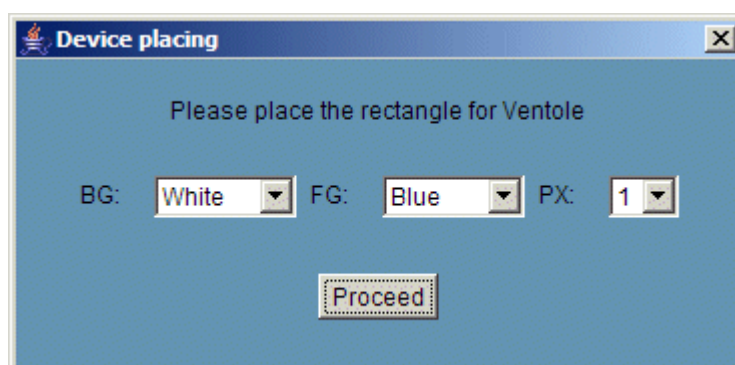
You can check/uncheck the values. It is possible to use icon or animated square. User can also modify:
BKG= background colour
SZ= font size

In the output section if you choose "Icon" the system will show a small drawing with the following meaning:

Example Table 3

Icon	Description	Value
	coloured icon rounded with blue square	On
	Gray icon	Off

In the output section if you choose “Motion” a new window will appear:



User has to choose the rectangle property:

Label	Meaning
BG	Rectangle background colour
FG	Rectangle foreground colour
PX	Line thickness in pixels

With the first left button mouse click you place the control in the layer, then point to the top left corner of the rectangular area, hold down left mouse and drag the pointer to the bottom right corner. Release left mouse button move the rectangular area to centre it and push left mouse button once. In the following example you can see a compressor rounded with a blue/red rectangular area. We also used “load 1” icon:

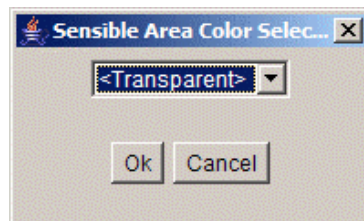
Left mouse click here
Hold down left mouse button
and drag the pointer to the blue
arrow.



When you reach the blue
arrow release the left mouse
button. One more left mouse
click to place.

- SENSIBLE AREA**

It allows to define a particular zone that can be linked to a layer. Mouse pointer change itself to a finger-icon when it is moved on these areas. The following window will appear:



It is possible to choose a transparent area or a coloured one. We suggest to use the first one when the background is an image. The procedure is the same as the one highlighted above in the motion rectangular area.

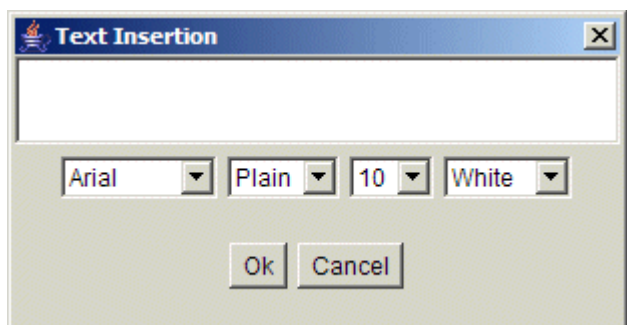
- **TEXT AREA**

It allows you to insert a text area inside the layer. We suggest to use this function each time you need to write something inside the layer. To not try to write text inside background image with your editing software instead use text area.

Insert your text here



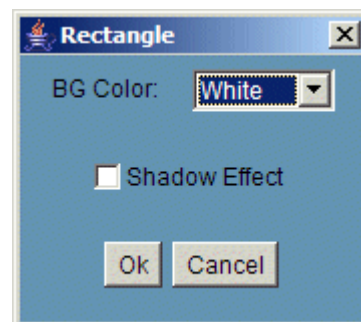
By using the four drop down menu, choose: font type, style, size and colour.





- **RECTANGLE**

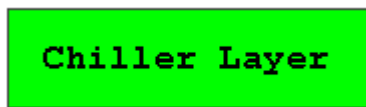
This function is useful when you want to highlight some area inside the layer.

User can choose the rectangle colour and the shadow effect. The procedure to draw the rectangular area is the one described above Device section.



Shadow effect	Without Shadow
	

Off course user can combine this function with text area and build up his own button-like graphics. Then with sensible area function you can link it to a specific layer.
Here it is an example:

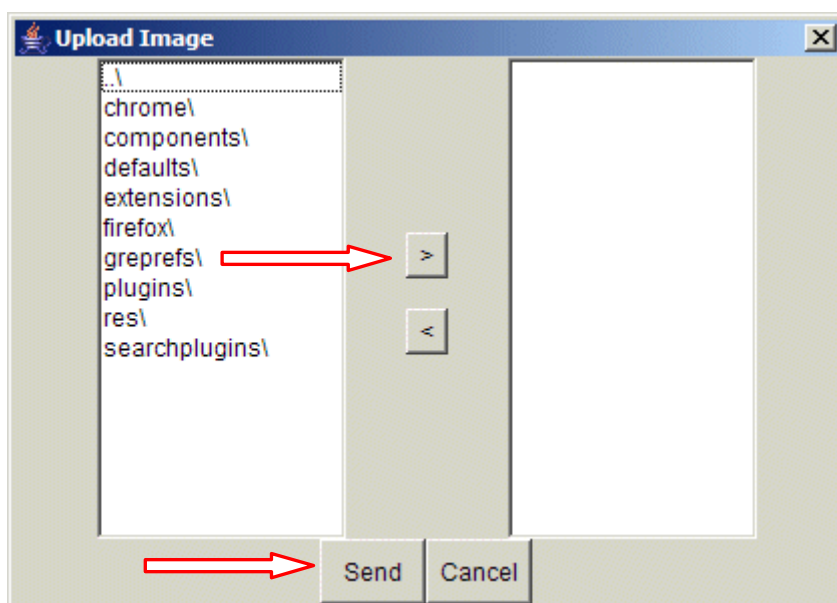


Images Submenu:

- **SEND TO SERVER**

It allows you to store inside the hard-disk of XWEB 500 all the pictures or drawings you want to use. Do not forget that we are working with web-technology and XWEB 500 acts as a server. In your PC you store temporarily the data later you will upload to the server.

From the left sub-windows you can browse your hard-disk to find the image you want to upload. Once you find it, select it and push ">" on the central portion of the window.



Repeat this operation for each image you want to upload. Once the list is complete, push "Send" button.

When you push "Send" the system first opens a windows to inform you about the upload procedure, once it is complete a new summarising window will appear. Close it by pushing "Ok".

- **DELETE FROM SERVER**

It allows you to delete unused images, simply choose the image to delete from the list, then push "Ok" button.

- **DOWNLOAD FROM SERVER**

It allows you to download an image to the hard disk of your computer. Once you have selected an image, push "Ok". Standard Windows file manager will open.

Layout Submenu:

- **START**

It allows you to test your layout. Once you push this button the editor transform itself in the viewer. You can have an overview of the layer with real data coming from the instruments you have selected.

- **STOP**

This function interrupts the start function described above.

Window Submenu:

- **WINDOW NAME**

Let you choose among the available layers.

3.5.4.2 LAYOUT VIEW

With this function the user can use the layout previously prepared via “Layout Editor”. Beware that the final user can interact with the real application if you used “Global command” function (see the above point P).

Of course Java Virtual Machine is needed. Your browser helps you during the download procedure. Quite probably the image you uploaded will not change frequently, so once they all are in the browser’s cache next time the load time will be faster. According to this function please check if your browser settings support cache. You can do this by clicking “Tools” menu, then “Internet Options” general TAB.

3.5.5 GLOBAL COMMANDS FUNCTION

It allows you to place in the layer a command-button and use it to send command to a particular instrument or to a range of them. We do not describe here again all the functions that are available also in the layout.

3.5.5.1 GLOBAL EDIT

In the homepage, go to Devices and choose “Global Edit”.

Go to insert menu and choose “Global Command”:

Here select the proper category. Once you have made your choice, the system loads up a new window.



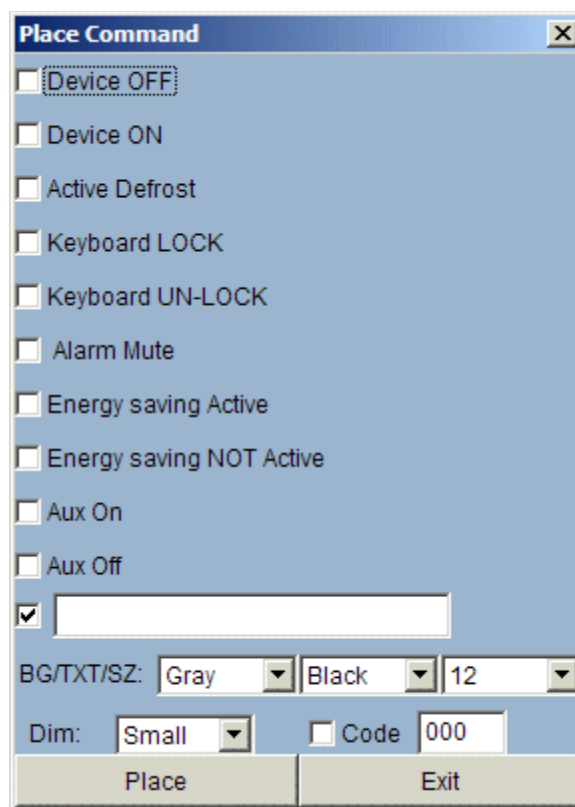
A summarizing window will appear:

You can check/uncheck manually the instruments or you can use the Select/Deselect All. Then push "Continue"



By pushing "Continue" the system makes a check to show you only the compatible commands to the instruments you have selected.

Choose the command/s you want to send by checking it, then give it the proper meaning by using the blank field.



BG: button background colour

TXT: button text colour

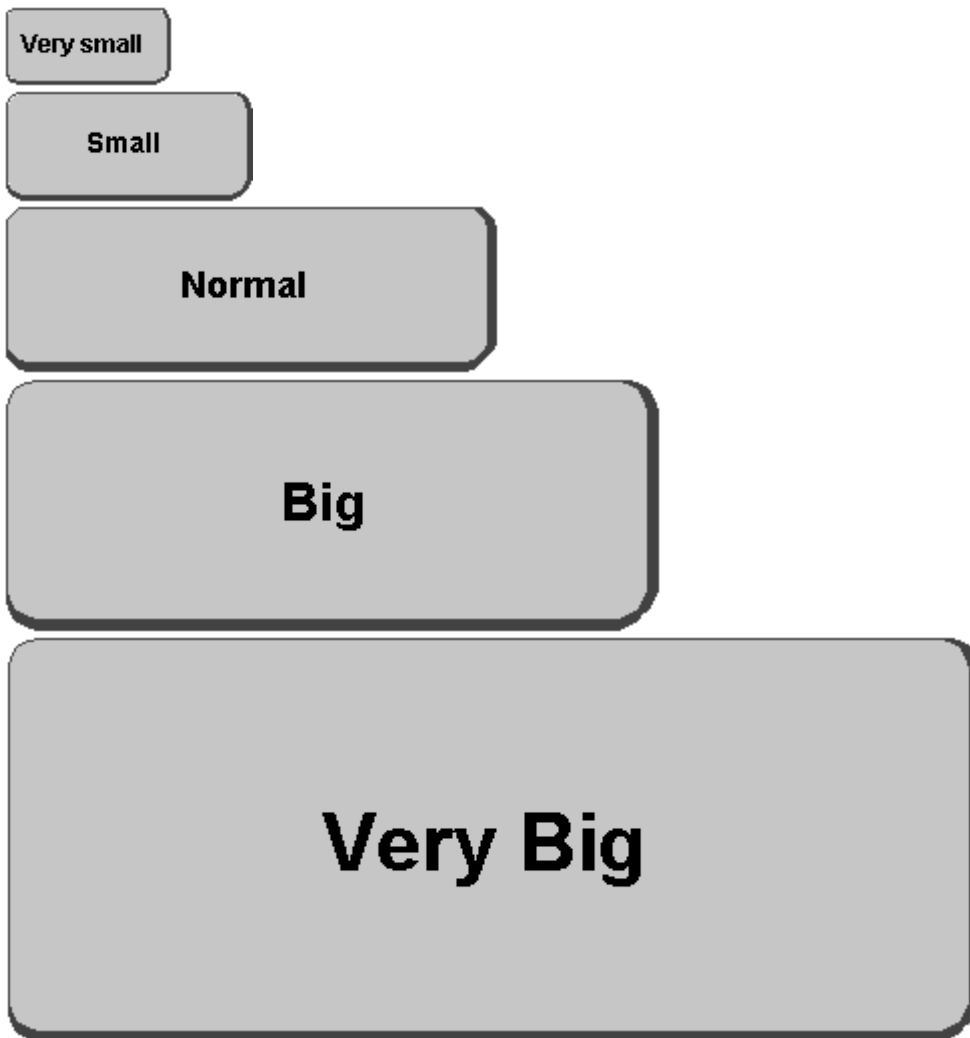
SZ: button font size

Dim: button size

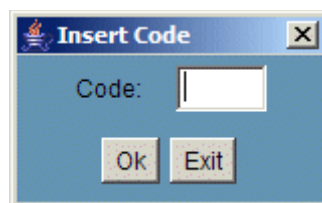
Code: check it if you need a password protected command



Here it is some button size examples. All screen captures are made at 1280 x 1024 pixels, standard resolution for a 17" LCD.



Once a button is password protected, each time someone push it, this window will appear:



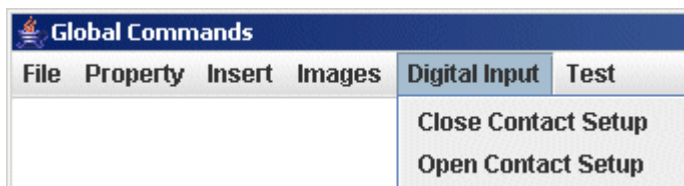
If you insert a wrong code, the field reset itself. You can continue inserting a code until you press “Exit”.

- **GRID**

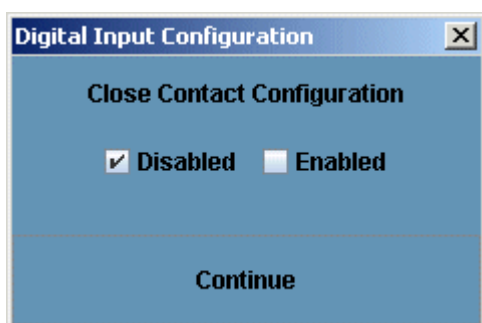
It helps you to align all the objects you want to place in the layer. By choosing this option you can also select the grid colour.

3.5.5.1.1 DIGITAL INPUT SENDING COMMANDS

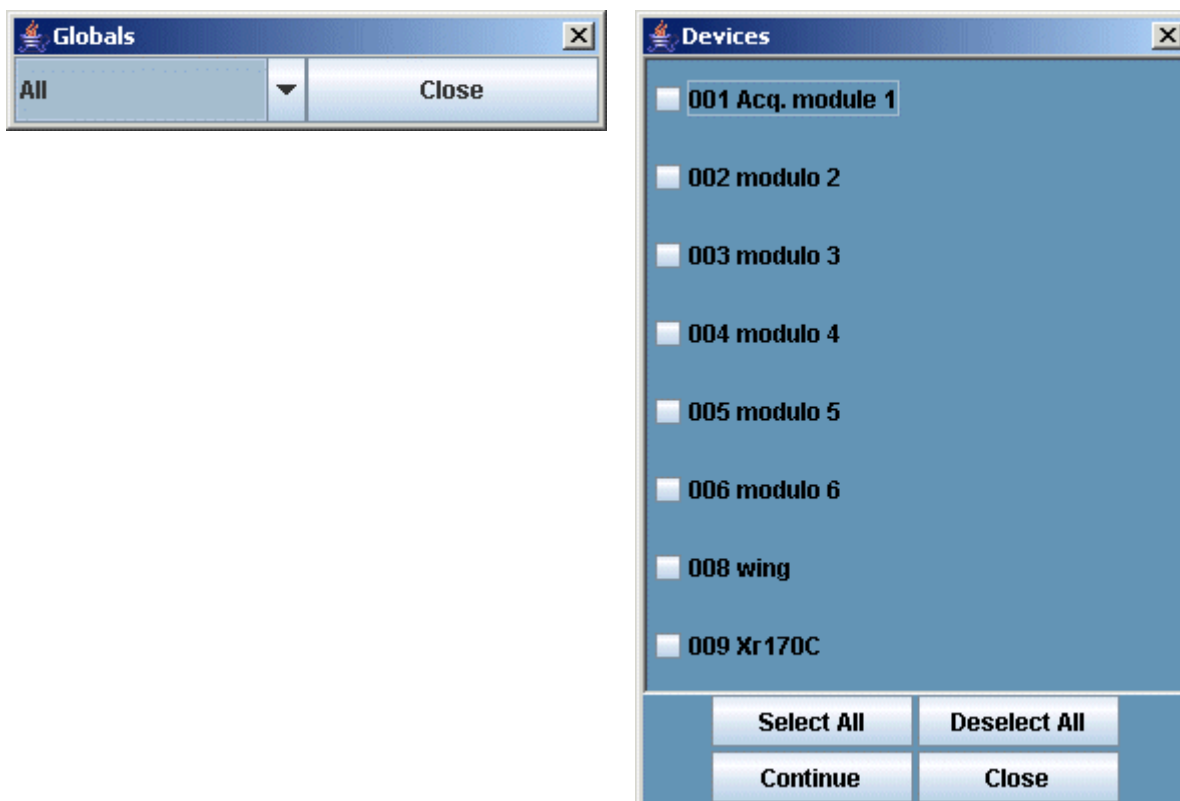
It is possible to send a set of command to a specific range of controller. The user must setup the “polarity” of the contact. This can be achieved by means of “Close contact setup” or “Open contact setup”.



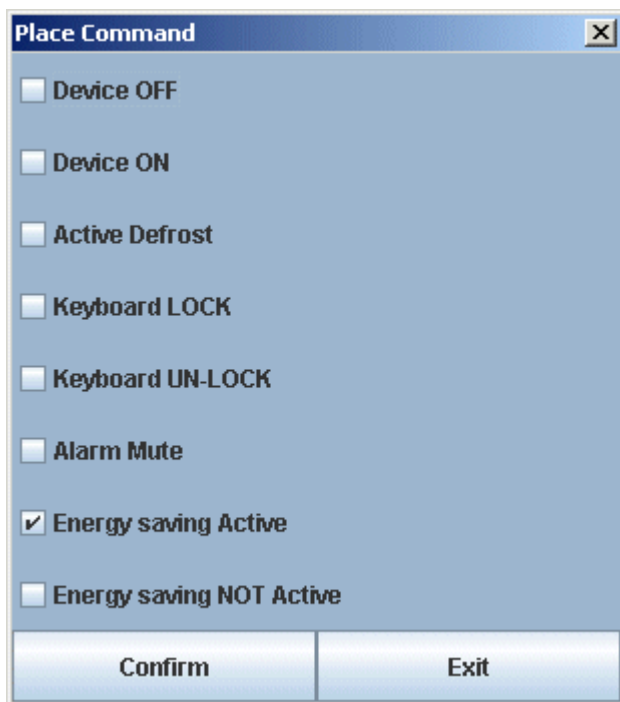
The status of the contact can be enabled or disabled.



Use the device filter to add the controllers to the digital input command sending feature.



Choose which command you want to send.



3.5.5.2 GLOBAL COMMANDS

This function allows the user to load a window containing all the global commands previously defined in the "Global Edit". In the main page go under Device menu and choose "Global Commands".

3.6 DATA MENU

You can access data information from the roll-down menu "Data" -> "Graphs".

Graphs is a file containing all the instrument data recording, the time interval used for these recordings is defined into the category "Recording interval".

This archive grows time by time depending on the number of instruments and it can become very large occupying the available memory contained into the server.

3.6.1 DISPLAY THE GRAPHS

With "Data" menu you can access Graphs section, then select the desired controller from the filter lists of the Device typology. After selecting the controller, the screen will show all the available data which the instrument is provided with.

Available data		Selected data			
From:	23/06/2006 10:25	To:	23/06/2006 10:27	From:	23/06/2006 10:25
				To:	23/06/2006 10:27
Show graph					
Analog Inputs					
Room (Pb1)		AG1	<input type="checkbox"/>		
Evaporator (Pb2)		AG1	<input type="checkbox"/>		
Set Point					
Set Point		AG1	<input type="checkbox"/>		
Digital Inputs					
Door Switch		DG1	<input type="checkbox"/>		
Generic Alarm		DG1	<input type="checkbox"/>		
Device Status					
On / Off		DG1	<input type="checkbox"/>	Keyboard	
Defrost		DG1	<input type="checkbox"/>	Energy Saving	
Output Status					
Defrost		DG1	<input type="checkbox"/>	Fan	
Alarm		DG1	<input type="checkbox"/>	Cooling	
Alarms					
Low Value Pb1		DG1	<input type="checkbox"/>	Error Pb2	
High Value Pb1		DG1	<input type="checkbox"/>	Error Pb3	
Error Pb1		DG1	<input type="checkbox"/>	Open Door	
Label: <input type="text" value="AG1"/> <input type="text" value="AG2"/> <input type="text" value="AG3"/> <input type="text" value="DG1"/> <input type="text" value="DG2"/> Period: 15.00 mm:ss Auto <input checked="" type="checkbox"/>					

The first information about the archive shows into “Available Interval” the first and the last recording date, while the “Select Interval” includes the period you can decided to show.

If necessary, modify the Select Interval period.

Longer is the time interval to show, longer the loading time needed to show the data graph.

For a first analysis select a time period not so wide but centred on the target of your interest, this ensure higher graph precision. You can also act on “Graph Density” parameters to decide if you need all data samples. This feature is very useful if you are connected via modem at a slow speed.

You have many rows: Analog Input – Setpoint – Digital Input – Output Status – Devices Staus - Alarm.

The number of the rows depends on the controller type.

For each of them you can graphs as many values as you want. The only limitation is 3 analog values and 2 digital ones.

For each selection is possible to decide the colour of the line that will be represented.

It is also possible to group the analogue inputs into a unique graph or to display them into separated ones. For example if you want to display all data using only one graph, select for each value AG1 from the roll-down menu, then in “Graph labels” write some words reminding you the meaning of the graphs. On the other side if you want to display the values in different graphs, you have to chose AG1 for the first values, AG2 for the second and AG3 for the third.

Remember that each graph can be renamed by the user with an appropriate name into the corresponding “Graph Labels” situated into the low side of the page.

Before clicking the command “View” it is possible to define the graph density to decide the resolution of the lines and recordings. Select the box “ Graph Density”.

Higher is the value of this parameter better will be the graph resolution, but longer the downloading time from the XWEB 500.

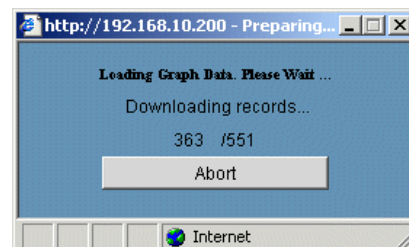
Now Click on “View” to start the transferring process of data from the XWEB 500 to your PC.

The displaying structure is based on a Java Applet and the Java Virtual Machine program installed into the remote PC that computes the data coming from the XWEB 500.

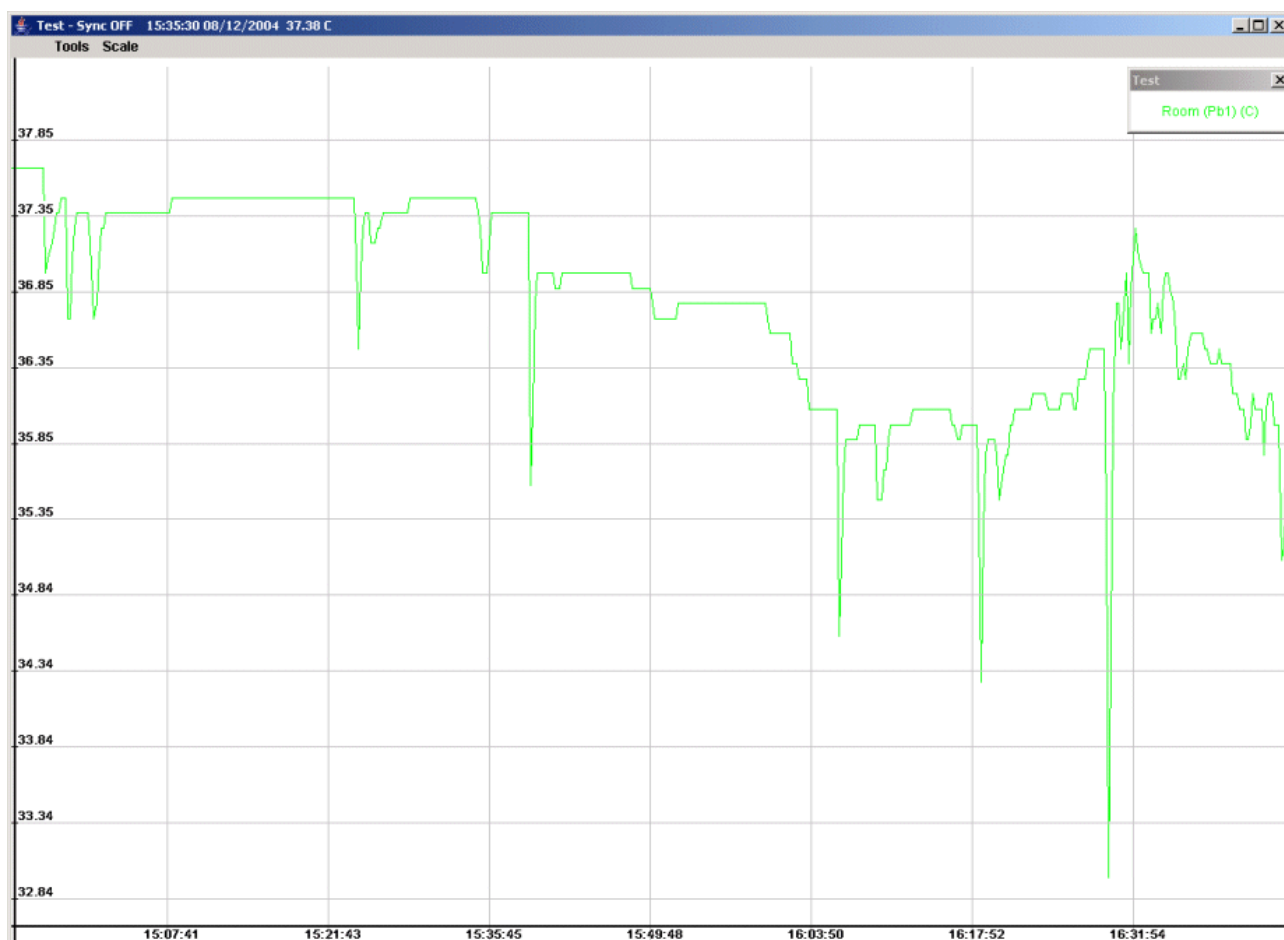
Depending on the Virtual Machine version installed a message to accept the term of use will appear during the operation.

Dixell S.p.a.. guarantees that the software is free from viruses and the request can be accepted.

The counter signals shows the status of the data you are downloading



At the end you will see the graph.



- **Zoom in/out procedures**

Before executing the zoom it is necessary, if there is more than a graph displayed, to select the desired graph.

Click, with the left button of the mouse, into the top bar of the information of graph itself.

To zoom in you just have to keep pressed to left mouse button.

To zoom out you just have to keep pressed to right mouse button

- **Zoom into an area**

To enhance the portion of a displayed graph click and keep pressed the left button of the mouse on the hypothetical top-left corner of the area to zoom.

Then drag the mouse down to the low right corner to complete the window to zoom. If the selected area have not the proper dimensions click one time outside the area itself to abort the zoom, then repeat the operation to select the area to zoom.

Otherwise, if you click one time with the left button inside the selected area, immediately this area will be zoomed to the borders of the graph.

- **Back to the original size**

To resize the graph to its original dimension select from the “Scale” menu the “Reset Size” option.

- **Manual Scale**

The first time the graph is displayed with an “auto scale” function defined by highest and lowest peek and the whole interval time selected.

Do define a personal scale of the graph view select from the “Scale” menu the “Manual Size” item.

The next windows will show the X and Y scale limits that the user can adapt to his requirement.

Set Graph Size...

Min X: (HH:MM:SS DD/MM/YYYY) 15 : 07 : 27 08 / 12 / 2004

Max X: (HH:MM:SS DD/MM/YYYY) 15 : 49 : 05 08 / 12 / 2004

Min Y: (VALUE) 36.35687

Max Y: (VALUE) 38.149475

OK Cancel

- **Graph Synchronism**

When a instrument information are displayed into 2 or more graphs, all the horizontal time axes are synchronised together.

By zooming only one of the graphs the result is that the other are no more synchronised with the new time base.

To keep all the graph synchronised you can use the “Sync” function from tools menu

Select it for each graph that has to be included into the synchronism function, then zoom into one of them. You can notice that all time axes are now synchronized

- **Graph info**

The graph information area is immediately displayed with the graph itself.

If necessary move or drag it where it does not cover part of the interested area.

To close the information window click on its crossed button.

To make it appear again select “Legenda” from the “Tools” menu.

- **Save a graph format**

This function provides to save the data of the displayed graph into the hard disk of the client computer connected to XWEB 500.

To start the operation select “Save” from the “Tools” menu.

After that you can proceed by using the typical saving method of Windows operative system, remember to assign a proper name and origin of the data. On the bottom left side of the window you can decide which data format to save: text (TXT) or html.

- **Load a graph**

Chose this option to load a graph previously saved.

- **Print a graph**

To print a graph on the printer of the client PC or on another net printer, select “Print” from the “Tools” menu, the follow the typical Windows structure.

3.6.2 EXPORTING DATA

It is possible to export data in TXT format or in HTML one. The user has to chose “Save on disk” in the “Action” menu. The standard window for graph is displayed. This time once all the wanted values are checked, select which format you want to export (red rectangular area in the following image) and push “Save” button.

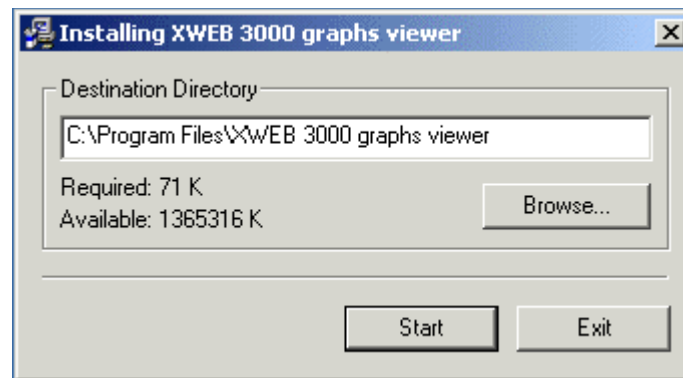
 HTML:

3.6.3 DELETE DATA

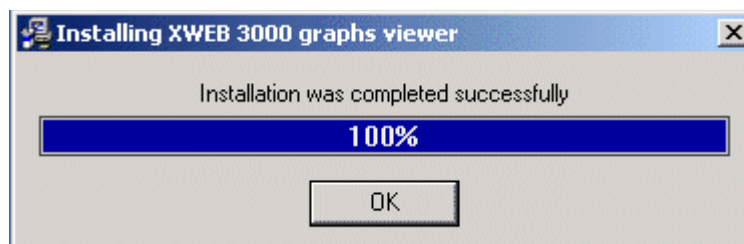
To remove unwanted data, go to “data” -> “Graphs”. Here from the drop-down menu “Actions” choose “cancel device data”. Beware, this will remove all data recorded from the controllers.

3.6.4 DISPLAY THE GRAPHS WITH LOCAL PC

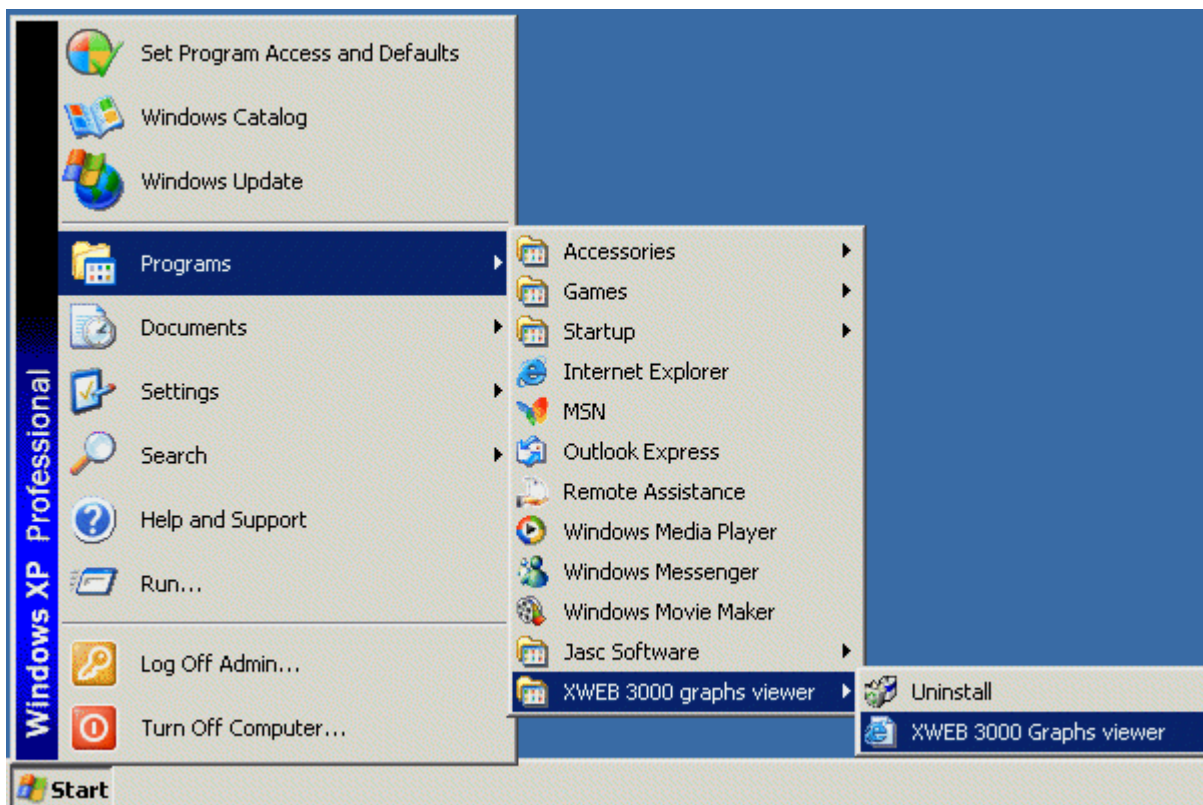
You can also display the graphs without connecting to a remote XWEB 500. First you need to save locally a graph(s) (see chapter §3.6.1 Display the graphs “Save a graph format” section). If this is the first time you want to display a graph locally, you have to install a special software. Insert the XWEB 500 cd-rom and go to “Utilities” section. Here install “Graph viewer”. First confirm the setup path and push “Start”.



At the end of the procedure this window will appear:

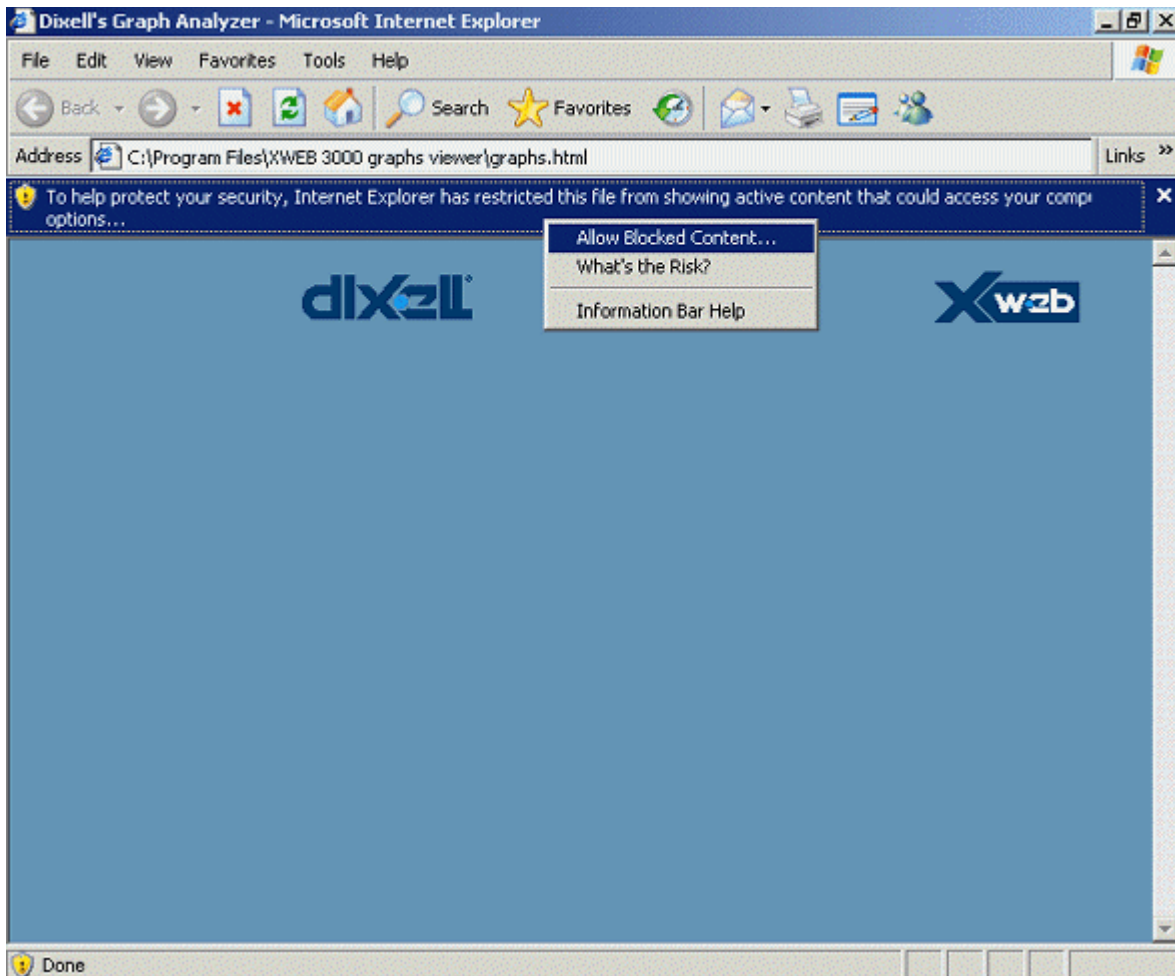


From now on you can find the program “Dixell’s graphs viewer” inside your PC start menu:

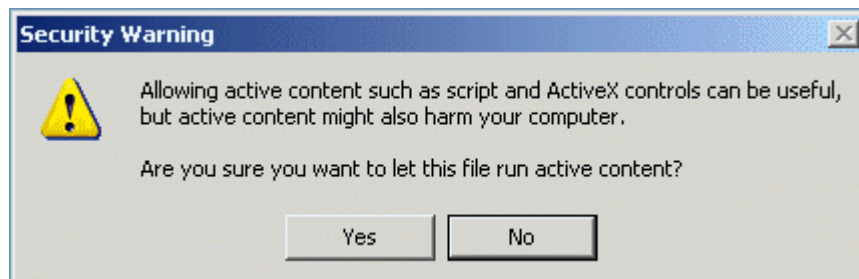


The first time you run it, depending on your PC security setup, you are required to let the software start.

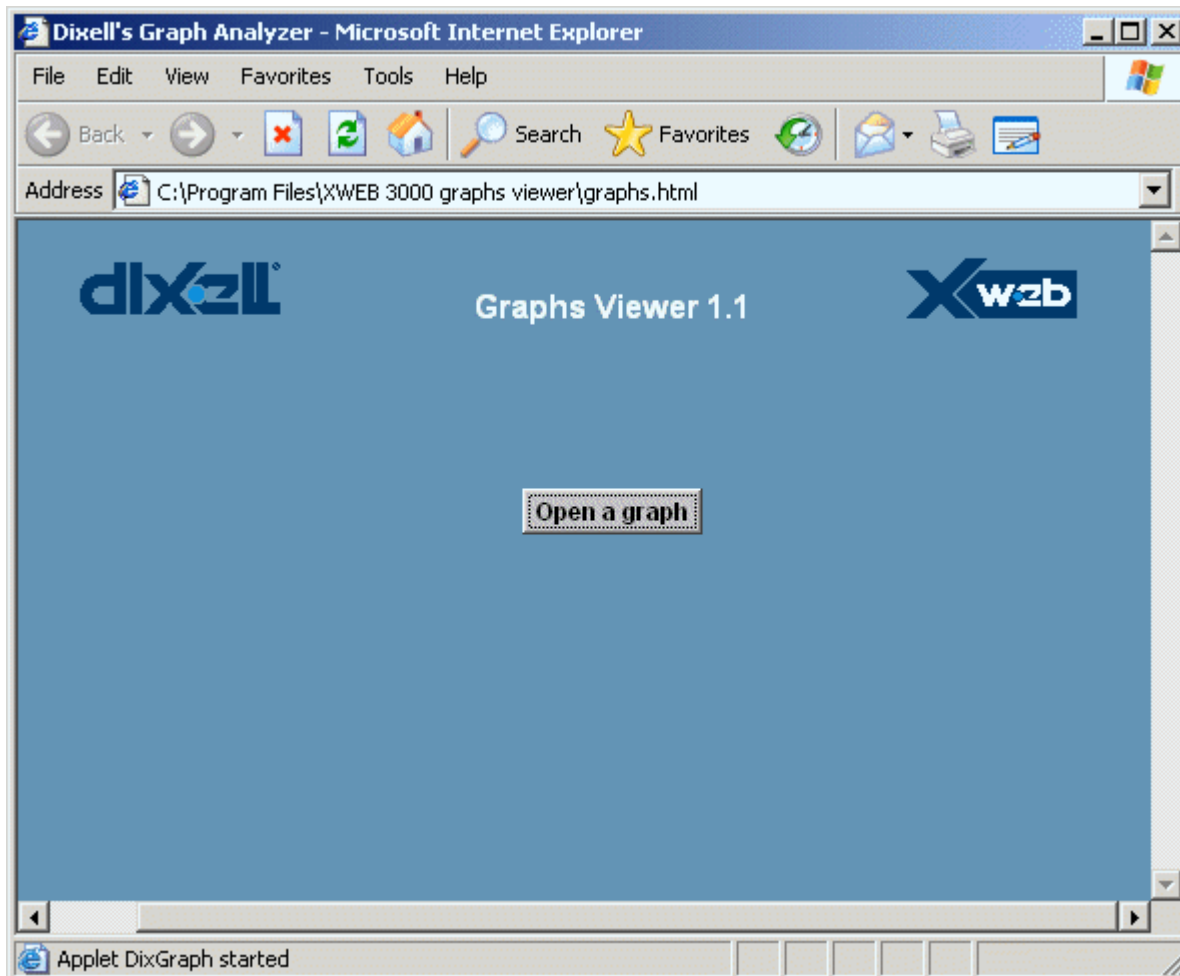
You can do this by clicking with right mouse button in the window header and choose “Allow Blocked Content...”.



Answer "Yes" to the following window:



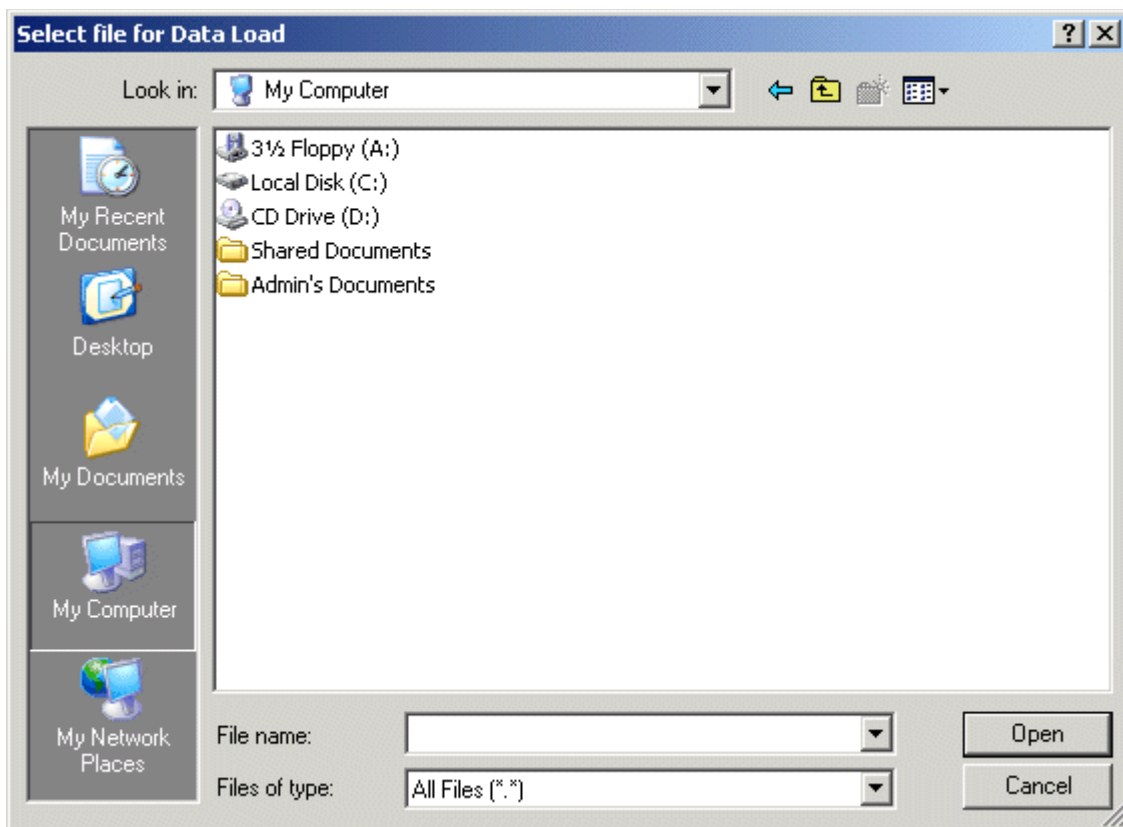
Finally this window will open:



Pushing "Open a graph" button, first you are required to confirm java virtual machine start, then you can browse your PC for a graph file.



Use the following window to load a previously saved graph.



3.7 ALARM MENU

3.7.1 HISTORICAL ALARMS

This function shows you all the alarm events detected from the XWEB 500 system. It is also possible to setup a search filter.

- Alarm view and filters**

To enter the alarm view, click on “Alarm” -> “Historical” menu.

The Device Alarm Page is divided onto 3 main section: Actions, Device filter and Alarm filter.

The screenshot shows the 'Alarms Filter' section with a 'Typology' dropdown set to '<-All the Typologies->' and a 'Last' field set to '7' days. The 'Devices Filter' section has a 'Typology' dropdown set to '<-All the Typologies->' and a 'Device' dropdown set to '<-All the Devices->'. The 'Actions' section has a 'View' dropdown and an 'Update' button.

The “Alarm Filter” defines which alarm level and which kind of alarm to search.

The “Device Filter” defines the typology and the name of the instrument to search.

The “Action” menu allows the user to decide what action to start: Save on disk in html format, view in the current window or print alarm.

The system automatically loads all the alarm. The user can filter which one wants to view using “Actual” or “Last” and insert the number of days back to show.

The alarm description is displayed in table format.

Adr	Dev. Name	Alarm Typology	Alarm Name	Start	Stop	Ending
7	new_XR170C	no link	High Value Pb1	08/12/2004 17:39:24	08/12/2004 18:22:15	Auto
7	new_XR170C	no link	High Value Pb1	08/12/2004 14:53:28	08/12/2004 16:39:43	Auto
1	new_XJP60D	no link	High Value Pb1	08/12/2004 14:53:23		Active
1	pippo	System Alarm	No link alarm	07/12/2004 16:54:49	07/12/2004 16:55:44	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 16:27:26	07/12/2004 16:41:58	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 16:57:21	07/12/2004 16:13:48	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 16:30:05	07/12/2004 15:45:44	Syst. Rest.

Beware to the status of an alarm:

- Active (To column):** Alarm is still active
- Auto (ending column):** Alarm stopped automatically. It means that alarm event is now ended.
- Stop Acq. (ending column):** Someone has stopped the recording activity
- Restart (ending column):** System has been rebooted by someone/something.

- Actual view of a device included into the alarm list**

The user could be interested in having more and deep information about the actual situation of an instrument with an active alarm that is included into the alarm list.

That's why if you click on the description of the instrument itself the XWEB 500 will load a snapshot page showing all the controller information.

- Print the alarm list**

Select the "Print" from the "Action" menu situated on the left corner of the alarm page under the Dixell logo.

Use the structure of the operative system of your client PC to select and configure the printer then proceed with the printing.

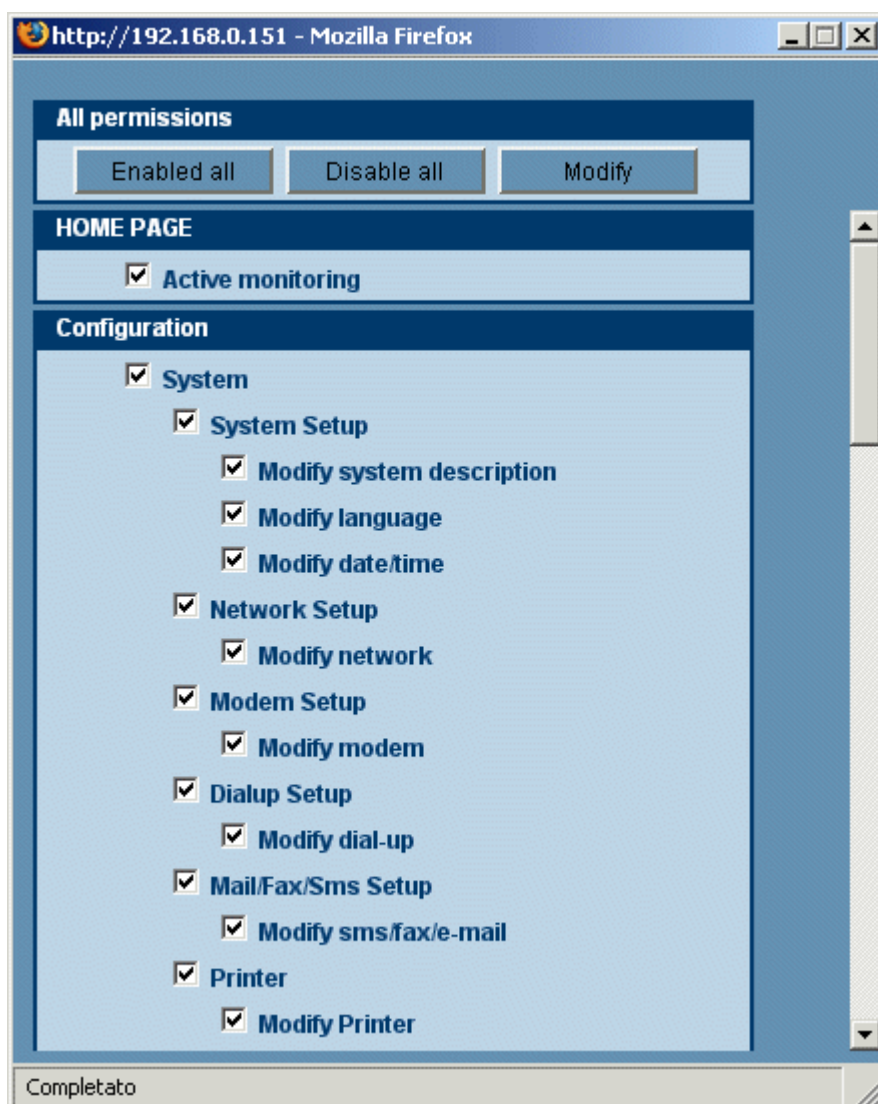
3.8 PERMISSIONS

From the “Configuration” menu you can access “Users”. This section is one of the most important to preserve the correct functioning of the unit. You can setup others users account and grant them the permission to interact with the XWEB 500. Permissions are a powerful tool to avoid accidental system damage and security holes.

Users					
Type	User	Password	Enabled	Action	
Administrator	Admin	*****	<input checked="" type="checkbox"/>	Modify	Cancel
			<input type="checkbox"/>	Cre	

We strongly suggest you to create a user with read only privileges and another one with the ability to change system behaviour. The third user must be the administrator who should be the only one to be able to interact with critical system behaviour, such as alarm setup menu or devices add/delete etc.

To modify an existing user you just have to put the correct name and password (by clicking inside the box), then push on “Modify” button. Default configuration consists of one Administrator.



To allow a user to interact with the unit, please assign him correct rights. To do this check/uncheck the proper permission. At the end of the procedure you have to confirm the changes by clicking on “apply” button.

3.8.1 MANAGING THE USERS

You can interact with a user in 3 different ways:

- Setting-up permission.
- Disabling the user (Enabling check box on the top right corner).
- Modify account and password

3.9 TOOLS SECTION

XWEB 500 has a complete set of useful tools to help the user managing in the best way both the monitoring unit and the controllers connected on the RS 485. Click on “Tools” menu to start using it.

3.9.1 DATA LOG STATUS

One of the most important tools is the “Data log Status”. This window gives you important information concerning the available amount of memory reserved to store data values. Value “Log” followed by a percentage is the amount of used memory at the present moment. XWEB 500 will give you a forecast expressed in days/hours on the duration of the stored data starting back from the last recorded value. The archive is in FIFO format, so the first data (the oldest one) is also the first to be overwritten. To enlarge this recording time you can decide which values you really need to store. To do this please click on “Configuration” -> “Devices” roll-down menu and select a controller. At this point uncheck all the value you do not want to record. In the following example DI “Defrost Start” is shown but not recorded.

Digital Input		
Name	Sh.	Rec.
Defrost Start	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Generic DI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

3.9.2 RS 485 TEST

It is possible to make a test on the RS 485 line. Click on “RS 485”. The following window will appear:

Modbus Communication Statistic					
Adr	Name	Tx	Rx	Perc.	Test
1	new_XJP60D	1196	1002	83%	Test
2	new_XJP60D	1013	843	83%	Test
3	new_XJP60D	1006	838	83%	Test
4	new_XJP60D	1006	838	83%	Test
5	new_XJP60D	1005	833	82%	Test
6	new_XJP60D	1009	838	83%	Test
7	new_XR170C	2372	2196	92%	Test


By clicking on “Test” XWEB 500 starts sending data packet to the selected controller. Depending on the number of sent back packet the percentage is shown in 3 different colours: red (bad connection), yellow (average connection) and green (good connection). This tool is useful to discover problem on the RS 485 wiring.

3.9.3 SERVER STATUS

Click on “Tools” -> “Server Status”. This window gives you important information about the XWEB 500 status. If there is some errors, they will be displayed in this section. The user can access this window also from the home page. The label “Server Status” show you the current status. If there is an error a small icon will appear. By clicking on it a report windows will appear.

Server	
Server:	Linux
Resources:	Ram 96% Flash 38%
IP Address:	192.168.0.151
Data Log:	0.0%
Data Reading:	Active
Data Recording:	Not Active
Alarm Sending:	Active
Last Connection:	22/06/2006 10:16:52
Last User:	dixell
Server Status:	OK

Server without errors

Server	
Server:	Linux
Resources:	Ram 96% Flash 38%
IP Address:	192.168.0.151
Data Log:	0.0%
Data Reading:	Active
Data Recording:	Not Active
Alarm Sending:	Active
Last Connection:	22/06/2006 10:16:52
Last User:	dixell
Server Status:	

Server with errors

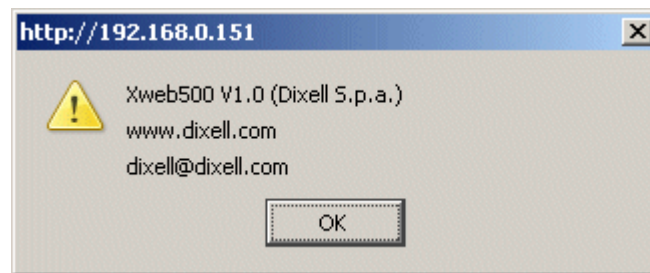
3.9.4 MESSAGE STATUS

click on “Tools” -> “Message status”. This windows show you the status queue of all messages that have to be sent by XWEB 500. If the server did not succeed in sending a message, an error is shown.

3.10 INFORMATION MENU

3.10.1 SYSTEM VERSION

In the submenu “About” there is the system release:



In the above image, the system release is 1.0.

3.10.2 SYSTEM UPDATE

One of the most important feature of XWEB 500 is the possibility to update the system via usb cable or via modem connection. Update procedure can be managed only by the administrator. This user has to click on “Information” -> “Update” menu. Standard browsing windows will appear. Chose the proper file and push “open”. This procedure may take as long as 5-10 minutes. During this period the system stops its monitoring functions. Dixell S.p.a. will provide you new software release when available.

4 SAFETY AND ALLOWED USE

Please read carefully what follows. Your security may depend on the respect of these simple rules. We strongly suggest you, to prevent damage to the unit, paying attention to each sentence.

- Remember to protect both yourself and the computer from electrical hazards. The XWEB 500 should remain turned off until you are finished connecting all electrical devices.
- Before giving the power supply, read the Technical Specification to be sure of the supply voltage you are going to connect.
- The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your installation site, consult your appliance dealer or local power company.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- The appliance should be situated away from heat sources such as radiators, heat registers etc.
- Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings.
- Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.
- Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

4.1 SYSTEM SPECIFICATION

General	
Dimensions (custom case)	230 (w) x 210 (h) x 87 (d) (mm)
Power Supply	230 VAC 50~60Hz.
Power Consumption	20 W
Enviromental Safe	
Temperature range	Above +0°C – 60°C (32°F – 104°F)
Humidity	between 20% and 85%

5 APPENDIX

Appendix A: DEVICE ADVANCED SECTION

Appendix B: GLOSSARY

Appendix C: SUPPORTED INSTRUMENTS

Appendix D: ACCESSORIES



APPENDIX A: DEVICE ADVANCED SECTION

In this section we describe how you can customize your device regardless its factory setup. We will point out only the main sections, without describing each fields in deep. Please notice that the page is divided in many rows. Each of them customizes a particular function of the device itself.

To access this section please stop data reading/recording, then go to “Configuration”->“Devices” roll-down menu. Here with selection “Actions” roll-down menu choose “Advanced”, then with “Devices” choose the proper controller.

“Analog Input” section shows you all the analog input that a device can use. These values can be displayed in decimal or integer values, of course you have to choose the same unit of measurement for both the XWEB and the instrument. The suffix “-I” means you want to display integer, default value is decimal. The same for Celsius and Fahrenheit degree. The suffix “-F” means Fahrenheit degree.

Warning: the integer/decimal or °C/°F configuration have to be chosen according to the real setting of the instruments.

Analog Input			Set Point		
Name	Vis.	Order	Name	Vis.	Order
Probe	<input checked="" type="checkbox"/>	0	Set	<input checked="" type="checkbox"/>	0
Probe(Int - °F)	<input type="checkbox"/>	0	Set (°F)	<input type="checkbox"/>	0
			Set (Int)	<input type="checkbox"/>	0

“Digital Input” row need particular attention. The values you find here are the factory defaults, so if you have made modifications to the device setup, you are requested to apply the same modifications in this menu. This is very important because all the values stored inside XWEB 500 devices section must be the same as the ones stored inside the EEPROM of the instrument. A common error for example is to modify “Generic Alarm” to some other values inside the instrument, than leave the value marked inside Advanced section. XWEB 500 will send you an alarm every time the switch changes status, even if it is not a generic alarm.

Digital Input		
Name	Vis.	Order
Defrost Start	<input checked="" type="checkbox"/>	0
Generic DI	<input checked="" type="checkbox"/>	0
Generic Alarm	<input type="checkbox"/>	0
Generic DI	<input type="checkbox"/>	0
Defrost Start	<input type="checkbox"/>	0
Generic Alarm	<input type="checkbox"/>	0

“Device Status” section allows you to customize your instruments, of course the same values have to be set both on XWEB 500 and the instruments themselves.

Device Status		
Name	Vis.	Order
On / Off	<input checked="" type="checkbox"/>	0
Digital Input	<input checked="" type="checkbox"/>	0
Defrost	<input checked="" type="checkbox"/>	0

“Commands” row is very important. You have to mark same values that you have marked before in the other section. In order to give XWEB 500 the possibility to send commands to the instruments. This is necessary because for example if you have changed “Generic Alarm” to “Auxiliary” in “digital Resources” section, then you have to mark “Aux on” and “Aux off” in “Commands” section to be able to turn on/off the output by means of the XWEB 500. Of course you have to do this kind of changes every time you have made some modifications to the controllers.

APPENDIX 0: GLOSSARY

C

Cable - Transmission medium of copper wire or optical fiber wrapped in a protective cover.

Client/Server - A networking system in which one or more file servers (Server) provide services; such as network management, application and centralized data storage for workstations (Clients).

CSMA/CD - Carrier Sense Multiple Access Collision Detection is a network access method in which devices that are ready to transmit data first check the channel for a carrier. If no carrier is sensed, a device can transmit. If two devices transmit at once, a collision occurs and each computer backs off and waits a random amount of time before attempting to retransmit. This is the access method used by Ethernet.

Coaxial Cable - Cable consisting of a single copper conductor in the center surrounded by a plastic layer for insulation and a braided metal outer shield.

Concentrator - A device that provides a central connection point for cables from workstations, servers, and peripherals. Most concentrators contain the ability to amplify the electrical signal they receive.

E

E-mail - An electronic mail message sent from a host computer to a remote computer.

End User - Refers to the human executing applications on the workstation.

F

File Server - A computer connected to the network that contains primary files/applications and shares them as requested with the other computers on the network. If the file server is dedicated for that purpose only, it is connected to a client/server network. An example of a client/server network is Novell Netware. All the computers connected to a peer-to-peer network are capable of being the file server. Two examples of peer-to-peer networks are LANtastic and Windows for Workgroups.

I

ISP (Internet Service Provider) - Company that provide access to internet

M

Modem (Modulator/Demodulator) - Devices that convert digital and analog signals. Modems allow computer data (digital) to be transmitted over voice-grade telephone lines (analog).

P

PCMCIA - An expansion slot found in many laptop computers.

Point-to-Point - A direct link between two objects in a network.

Ports - A connection point for a cable.

Protocol -A formal description of a set of rules and conventions that govern how devices on a network exchange information.

R

RAM (Random Access Memory) - The working memory of a computer where data and programs are temporarily stored. RAM only holds information when the computer is on.

S

Speed of Data Transfer - The rate at which information travels through a network, usually measured in megabits per second.

W

Workstation - A computer connected to a network at which users interact with software stored on the network.

APPENDIX 0: SUPPORTED INSTRUMENTS

THIS RELEASE OF XWEB 500 SUPPORTS THE FOLLOWING DIXELL FAMILY INSTRUMENTS. PLEASE TAKE A LOOK TO THE RELEASE NUMBER OF THE DEVICE. YOU CAN VERIFY IT WITH REL. PERAMETER OR READING IT ON THE BACK STICKER OF THE INSTRUMENTS ITSELF. OTHER RELEASE VERSIONS ARE COMING SOON.

Family	Release Version	Controller type	Controller type	Controller type	Controller type
XR 100/500/700	2.0	110C	120D		
		120C	130D		
		130C	140D		
		140C	150D		
		150C	160D		
		160C	170D		
		170C	530D		
		172C	563D		
		530C	570D		
		572C			
		570C			
	2.1	170C	563D		
		570C	570D		
XLR	1.0	XR775C			
		XR745C			
	1.0	XLR130			
		XLR170			

XW 200/500		1.5	XW220L	XW220K		
			XW230L	XW240K		
			XW260L	XW260K		
			XW270L	XW264K		
			XW271L	XW270K		
			XW570L	XW271K		
			XW263L	XW272K		
			XW264L	XW570K		
			XW563L			
XM 400K		0.2	XM440K			
			XM460K			
			XM463K			
			XM470K			
		0.3	XM460K			
XM463						
XC	400 600 700M 800M 900M	1.4	XC706M			
			XC807M			
			XC811M			
			XC907M			
			XC911M			
		2.0	XC650C			
			XC642C			
			XC640C			
			XC420C			
			XC440C			
	XC420D					
	XC440D					
	XC460D					
	XT	100C 200C	1.0	XA100C		
				XT110C		
				XT111C		
				XT120C		
XT121C						
XT130C						
XT131C						
XT141C						
XT210C						
XT211C						
XT220C						
XT221C						
1.2			XA100C			
			XT110C			
			XT111C			
			XT120C			
			XT121C			
			XT130C			
			XT131C			
			XT141C			
			XT210C			
			XT211C			
			XT220C			
			XT221C			
XH	200 300 400	1.0	XH240L	XH240V	XH240K	
			XH260L	XH260V		
			XH340L	XH340V		
			XH360L	XH360V		
			XH460L			

XJP XJA XJR	1.4	XJP30D
		XJP60D
		XJA50D
		XJR40D
iCHILL	1.5	IC110C
		IC111C
		IC120C
		IC121C

APPENDIX 0: ACCESSORIES

TYPE	DESCRIPTION	COMMERCIAL NAME	HOW-TO ORDER
MODEM	Analog SERIAL modem, PDA compatible, 56kbps	XWEB MODEM	XWEBMODEM-200 (24Vac)
			XWEBMODEM-400 (110Vac)
			XWEBMODEM-500 (230Vac)
MODEM GSM	GSM modem KIT	TC35-KIT	TC35-KIT
CABLE	Ethernet patch cable compatible with XWEB500, 3m	###	CAB/WEB/NET
CABLE	Ethernet patch cross- over cable compatible with XWEB500, 1m	###	CAB/WEB/PC

[illegible]
